

The National Locksmith[®]



May 2005
Volume 76
No. 5
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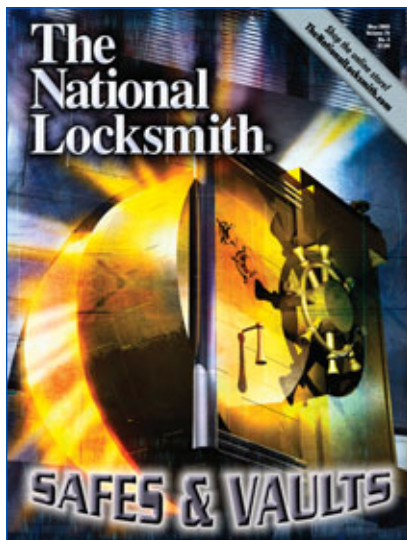
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Editor Greg Mango
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Technical Editor Jake Jakubowski
Senior Writers
 Sal Dulcamaro CML, Michael Hyde,
 Dale Libby CMS, Dave McOmie, Sara Probasco,
 Robert Sieveking
Contributing Writers
 John Blankenship, Tony Blass,
 Ron & Chris Curry, Mark Daniel,
 Richard Allen Dickey, Ken Holmlund,
 Tom Lynch, Tom Mazzone, Randy Mize,
 Bill Phillips, Tom Seroogy, Steve Young
Director of Sales & Marketing Jeff Adair
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 Dave Krofel, Joseph Bonus
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 LaVerne Schertzing, Chandra Smith
Shipping Manager Allan Galvez

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(630) 837-2044 • Fax: (630) 837-1210
 E-Mail: natlock@aol.com
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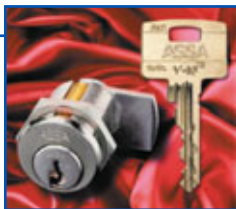
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Pain At The Pump

Are you feeling the pinch of higher gas prices? Locksmiths drive constantly and pain at the pump has gotten worse in the last few months. WGAL TV in central Pennsylvania quotes locksmith Richard Rudy.

"We have two trucks, and we're on the road basically every day," locksmith Richard Rudy said.

Some locksmiths are raising trip fees. One hundred fifty miles a day means the cost for on-site service, which has already jumped 20 percent over the last five years, is going up again. "It affects the bottom line, definitely," Rudy said.

The average price of a gallon, according to the US Department of Energy, has climbed 39.5 cents from this time last year, to \$2.15. The East Coast is paying an average of \$2.12 while the West Coast is paying a shocking \$2.32, with California socked hardest at an average price of \$2.38.

Using an online gas calculator, we find that in California, the cost of daily travel at 150 miles per day in a van amounts to \$22.51. In a five day week, that equals \$112.55 in gasoline costs. Shocking.

From Howtoadvice.com, here are ten gas saving tips that I didn't know about before this research.

- 1.** Buy gasoline during the coolest part of the day, early morning or late evening. Gas is densest at this time. You pay for volume, not density. Your gallon of gasoline will expand as the day becomes warmer.
- 2.** Avoid prolonged warm up of the engine. Even on cold mornings, 30 to 45 seconds is plenty.
- 3.** Don't start and stop the engine needlessly. Idling for one minute consumes as much gas as when starting the car. So if you'll be parked for a while, shut off the engine, otherwise, if safe, let it run.
- 4.** Watch your speed. You get 21% better mileage at 55 mph than at 65 mph.

5. Close your windows at highway speeds. Open windows cause air drag and can reduce mileage by 10%.

6. Inflate all tires to their maximum limit for the best mileage. Check your air pressure regularly.

7. Do you need to run air conditioning today? Mileage is reduced by 10 to 20%.

8. Locksmiths can improve mileage by reducing weight in the vehicle. Are you carrying heavy stuff you never use?

9. Accelerate before you reach a hill rather than while you're on it.

10. Check your mileage with various brands of gas until you find the brand that gives your vehicle the best mileage. Different brands may yield different mileage.

Finally, take a look at your trip charge. See if it is compatible with your costs of gas, maintenance and time. If you haven't adjusted that fee in a long time, check with your local competitors to find whether you're selling yourself short.



Marc Goldberg

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Marc Goldberg
Publisher

Mango's Message

Locksmith Fraud & Deception

Fox News Chicago recently did an investigative report on a locksmith company utilizing the Chicago Yellow Pages to blanket the Chicago area using fake addresses. The company "*Chicago Locks Smiths 24 Hour*" has 12 locations listed in the Chicago Yellow Pages, however, the addresses used for those locations are actually occupied by other non-related businesses.

Amongst the businesses whose locations were wrongfully used by *Chicago Locks Smiths 24 Hour* were: Sara & Lees Café, Bo Bo Fine Chinese Cuisine, El Burrito Mexican Restaurant, Fernando's Tequila Bar, Rose Angelis Restaurant, Pizza Hut, Insure One Insurance, Chicago Nail Club, Havana Tobacco Company, and Wilfredo de Manila's Dress Shop, all of which are currently in operation.

During the report, Fox News Investigative Reporter Larry Yellen, locked his keys in his vehicle right in front of the Pizza Hut location listed as an address of *Chicago Locks Smiths 24 Hour* and called for help. He was told the charge for a service call would be \$55, even though he was directly in front of one of *Chicago Locks Smiths 24 Hour* supposed locations. The locksmith arrived 1-hour later in an unmarked passenger vehicle. He proceeded to unlock Yellen's vehicle charging a total of \$100.

During this occurrence it did not show whether the locksmith asked for any form of identification before unlocking the vehicle, or whether Yellen asked for any form of identification or license from the locksmith. In Illinois locksmiths are licensed. I also could not tell if a locksmith license number was present on his service vehicle, although I seriously doubt it because it looked like the locksmiths' personal vehicle and not a company issued vehicle. In Illinois the locksmith license must be present on all service vehicles.

I use the term locksmith, referring to the service provider in this investigation very loosely. From what I could tell, the service provider for *Chicago Locks Smiths 24 Hour* was only prepared to provide emergency unlocks. He may have had the ability to originate or duplicate a key other than hand filing it, but it sure didn't look like it. In reality they are representing themselves as locksmiths, but they're not. If all they do is unlock vehicles, they're not a locksmith, any more than someone who only changes light bulbs is not an electrician. On the other hand, is *Chicago Locks Smiths 24 Hour* a locksmith company?

It's quite apparent that this company front (*Chicago Locks Smiths 24 Hour*) was created to provide vehicle unlocks only, for several reasons: first is the name. It intentionally changed Locksmiths to Locks Smiths, implying a locksmith company, while not embracing or qualifying it as one. It listed 12 fraudulent business addresses obviously unconcerned if someone should actually go to one. If one can get to their location, they are probably

not locked out of their car. By blanketing as wide an area as possible, they increase their lockout recidivism. Other than duplicating a key, or picking a lock, vehicle unlocks is the next fastest service a locksmith can provide, allowing one locksmith to cover a broad area in a timely manner, and one seldom makes \$100 to duplicate a key or pick a lock. The unmarked passenger vehicle the "locksmith" arrived in was most certainly his personal vehicle being used here as a service vehicle, with little more than an unlock kit in it. Yet, they do possess an Illinois locksmith license.

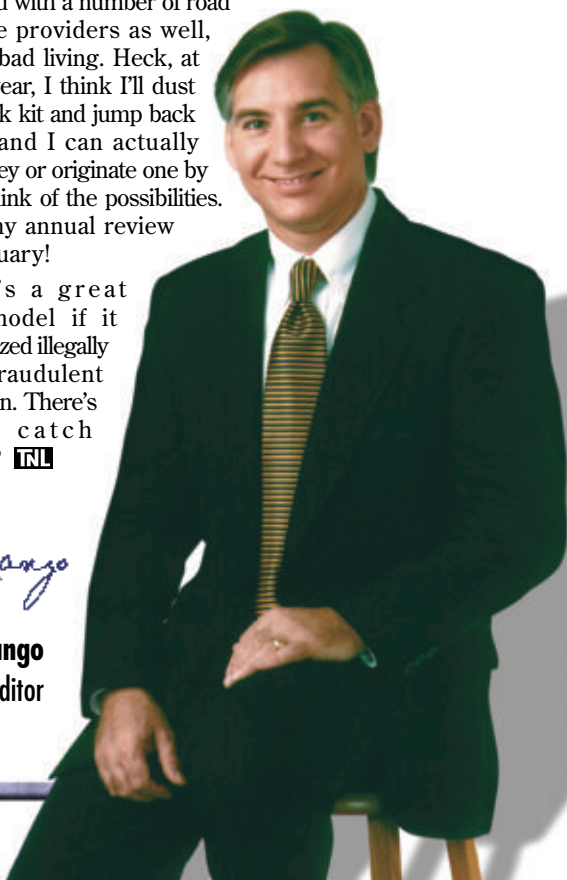
After further investigation it was discovered that the parent company of *Chicago Locks Smiths 24 Hour* is *Priceline Locksmith Inc.*, in the Bronx, NY. The company president is listed as Gilad Yehoshua Gill. They received an Illinois locksmith license in January of 2005 followed by multiple listings in the Chicago Yellow Pages in February 2005.

So let's see, if the only overhead you have to run a business is 12 non classified listings in the Yellow Pages, fuel charges, minor vehicle repairs, a cell phone, and a lockout kit, and you can do say 10-12 lockouts a day at \$100 a crack, which in a city the size of Chicago is not unconceivable and probably conservative, especially if one is listed with a number of road side service providers as well, that's not a bad living. Heck, at \$365,000 a year, I think I'll dust off my unlock kit and jump back in my car, and I can actually duplicate a key or originate one by code! Just think of the possibilities. Ha Marc, my annual review was last January!

Yes, it's a great business model if it wasn't organized illegally and with fraudulent representation. There's always a catch isn't there? **TNL**



Greg Mango
Editor



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Finishes: SS Stainless Steel; PB Polished Brass; BC Black Chrome

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83 IC/45- B1	1-3/4" Brass I-Core with 1" Shkl Clear	\$8.75
83 IC/45- B2	1-3/4" Brass I-Core with 2" Shkl Clear	\$9.32
83 IC/45- B3	1-3/4" Brass I-Core with 3" Shkl Clear	\$9.91

No. 83409 Cap \$1.75

Color Aluminum 83/45 Rekeyable

I-Core Not Included 83/45 I-Core Model



LETTERS

Promoting Police Services

In reference to Mr. Mango's Message March 5, 2005 "*Police Too Busy, Call a Locksmith*" I haven't worried about this issue for 21 years. The first year I was open, I competed with the local municipal police dept for car lockouts. I went to the Chief of Police and asked why they took money out of my pocket by competing with me? He said it was a community service. I asked, "If I have a flat tire, would you help me?" "If I ran out of gas, would you help me?" "If I needed a jump start, would you help me?" To all of these questions I was given a "yes" answer.

I told him that I was a very civic minded person and I was going to take \$750 out of my business account and take out a half page ad in the newspaper and list all the services that the police department would do for the citizens for free. I wanted to promote the great services they offered. Two weeks later the chief put out a memo stating the dept would no longer open cars unless it was a perceived emergency.

I was only trying to help!

Mike Finn
Ohio

Now One of the Elite

Today I received my March 2005 issue of *The National Locksmith*, and noticed that I'm listed as a contributing writer. I've written for a lot of physical and electronic trade journals, but have never felt more proud to be listed on a masthead. *The National Locksmith* is the oldest and most prestigious locksmithing magazine. I look forward to contributing many more articles to your fine publication.

Bill Phillips
Pennsylvania

Editorial Correction

Just wanted to let you know about a MAJOR mistake in this article. In the third paragraph, Dale stated that "From the factory, these Triton ATM's have a Sargent & Greenleaf 33E electronic lock installed." In fact it is a LAGARD 33E lock that is installed.

Thank you,

Tasha Birdwell
Marketing Manager
LAGARD, INC.

New web Site

It has been a while since I logged on to your site. I am very pleased with the new website. It's very user friendly. Keep up the great work.

Mary Swann
E-Mail

Replacement Parts Supplier Needed

This is a letter to complain about something that bothers me and I'm sure a number of fellow locksmiths as well.

Webster's Dictionary defines locksmiths as "a person whose work is making or REPAIRING locks and making keys". My complaint, to repair locks you have to be able to get parts.

Every time you need parts, (I hope a few distributors and manufactures will read this) it is very hard to identify and find part numbers for the items you need. I am talking about grade 1 and grade 2 products, not the homeowner variety.

The typical response when you try to order a part is to replace the entire device. I have had this take place on a \$250 lever lock with a \$5 broken spring, a \$300 exit device with a broken pin and spring, and a \$450

exit device with a missing dogging assembly. If you can finally find the right part number you are told it will be 4 to 6 weeks to get the items; in reality it is sometimes 10 to 12 weeks.

Some manufactures will help you find the proper parts and numbers; some will have the parts in hardware packages, and some will not help you at all; but all of them will send you back to the distributors; "4 to 6 weeks maybe".

I gather by all of the suggestions on fabricating repair parts that are in Technitips each month (some of them brilliant) that I am not alone in this.

Is there anyplace in the locksmithing industry where a person can get replacement parts in a timely fashion? Any help in this matter would be greatly appreciated.

Thanks for letting me vent!

Fred Martin CRL
Montana

Editors Note: O.K. distributors, I believe this one is for you.

TRL



E-mail Your Views:
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Please include your first and last name.

The National Locksmith

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Attn: Editor

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To see your product featured here, contact Jeff Adair or Debbie Schertzing at 630-837-2044.

Arrow HE Series

ARROW brings strength, durability and elegance to the residential security market with the introduction of the HE-Series designer entrance handleset. The sleek lockset is constructed from solid forged brass, features a lifetime mechanical and finish warranty, and includes the Arrow E Series security deadbolt with a one-inch throw. The single cylinder lockset features a 2 $\frac{3}{8}$ " backset, non-handed design in US3 polished brass or 26D finish. The HE Series is easy to install and fits doors 1 $\frac{3}{8}$ " to 1 $\frac{3}{4}$ " thick.



Hinge Doctor

Did you ever have to file a door strike because the latch is suddenly below the strike hole? Or the top of the door is hitting the doorframe? Well put away that file and you won't need to remove the hinge to bend it back in your vise either. Just use the new "Hinge Doctor" tool. It will fix that sagging door in a minute in just two easy steps.

Just slide the tool over the hinge while the door is closed, hold it there with one hand while you open the door with your other hand. The door will start to bind and will feel springy. Continue pulling the door open another few inches or so. At this point, if it's a hollow metal door, you're realigning the hinge mounting plate, or if it's a wood door, the hinge will start bending back to its original shape.



Kaba Access Control E-Plex™ E5031

Kaba Access Control's E-Plex E5031 Series Lock is now listed in the BHMA Certified Products Directory for ANSI/BHMA A156.25 Electrified Locking Devices Grade 1. The E-Plex E5031 is the only pushbutton lock that is currently certified and listed in this BHMA Certified Products Directory category.

Kaba's new E-Plex 5000 Series is a programmable pushbutton lock with up to 100 access codes and a 3,000 event audit trail. The new E-Plex combines the simplicity and reliability of Kaba's Simplex mechanical pushbutton locks with the added security and features of electronic access control, proving that an electronic lock can be easy to install, manage and use.

BHMA (Builders Hardware Manufacturer's Association) is nationally recognized for leadership in ensuring the quality and performance of builder's hardware. This BHMA standard includes requirements and tests for cyclical, security, operation, strength, environmental and finish.



New Kaba Mas Cencon Keypad Design

Kaba Mas offers an optional Keypad Down (KD) front cover for the Cencon S2000 ATM lock. With the KD option, the Liquid Crystal Display (LCD) and keys are located below the dial, angled up in the direction of the user's eye, maximizing the viewing angle.

Keypad Down is the optimal solution for installing a Cencon lock on newer ATMs with an extended panel or obstruction above the lock.



Kwikset UltraMax Security®

Kwikset now offers Grade 1 deadbolts with the Kwikset UltraMax Security® line of door hardware designed, produced and distributed for the residential construction and residential home markets.

Kwikset offers UltraMax Security line deadbolts in single (Model 980) and double cylinder (Model 985) and on the 800 Series of three handsets, which feature a titanium-alloy throwbolt core, a 6-pin cylinder with anti-pick pins, and an UltraStrike Door jamb Brace™ designed to prevent forcible entry.



LA GARD's New Group 2M Lock

LA GARD's Group 2M mechanical lock, incorporates a design that increases security at no additional cost, while saving significant assembly time.

The sealed lock design consisting of a permanently affixed back cover plate, eliminates the risk of damaging sensitive internal components on the safe assembly line and enhances the overall integrity of the mechanism. Locksmiths will find the ease and quickness of installation a benefit in the field.

Another cost saving feature is its bolt-sensing switch. Previously located inside the lock case, LA GARD's bolt switch access is placed outside of the case. This allows locksmiths to add, remove or modify bolt sensing without breaking the seal.

With multiple patents pending, the LA GARD Group 2M Mechanical Lock has earned UL's 2M rating. A sintered steel bolt and a unique anti-pick lever are just two of the reasons for this prestigious rating. By using steel instead of zinc, the sintered steel bolt provides additional strength over previous designs. The innovative anti-pick arm provides a unique action that hampers traditional safe-manipulation methods.

Most substantial for our customers is that this lock is also economical.



Another Original by Norton

Norton Door Controls has introduced a new generation of power door operators—the 5700 Series Low Energy Operator (LEO™).

Door operators were once considered a necessity for only those with physical challenges. Today, due to the population's busy lifestyles, the convenience of "hands-free" door opening is more popular than ever. The patented design of LEO™ is based on ease and simplicity. LEO installs in minutes rather than hours and consists of three major components: inverter, motor and Norton's 1601 closer body.

What separates LEO from other operators is its ability to function as a standard door closer. When the door is opened manually, the drive train and motor are not engaged. The closer, not the motor, controls the closing cycle. In the event of a power outage, the door can be manually opened and will close via the door closer's spring force.

LEO is listed with UL and ANSI/BHMA A156.19 and meets the requirements of ADA and A156.4. Units can be purchased for push or pull side applications and can be activated by a motion sensor, radio frequency device or wall switch. The 5700 Series is the ideal choice for schools, retirement facilities and physician's offices.

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Safe Merchandising Poster

Available at no cost to locksmiths or distributors, a safe merchandising wall poster has been published by Perma-Vault Safe Company. The 20-inch by 24-inch black and white poster displays 35 safes in six different product categories. The poster is designed to spur sales at the locksmith's store, as well as to educate locksmiths at the distributor's will-call counters when they pick up product.



Pila Professional Flashlight Systems

The Pila family of professional flashlights, which include the GL2, GL3 and GL4 have continued adding more accessories and features accommodating the hard and demanding usage from police, law enforcement/SWAT, security and EMS. PILA has a wide selection of accessories and attachments such as the heavy-duty nylon holsters optional Xenon lamp or LED Emitter, headlight filter rings with Red, IR or UV, rechargeable Li-ion batteries with a shelf life of ten years that can also be recharged up to 500 times with consistent performance on the disposable Lithium CR 123A batteries.

Additional accessories are the LED Tail Cap for the GL2, GL3 and GL4 with an output of 3.5 lumens to 7 lumens with the flashlight body housed in black anodized aircraft grade aluminum that is O-ring sealed and water proof up to 3 meters.

The list of accessories, attachments and options are too numerous to list. Electronic Services Agency (ESA) is the primary U.S. distributor handling the Pila flashlight product line.



PRO-LOK 2005 Car Opening Update

The 2005 Update covers the latest foreign and domestic vehicles on the road. The page size is 5 1/2" x 8 1/2". FULL COLOR photos of each and every vehicle. The PRO-LOK Car Opening update is the only manual that is completely printed in FULL COLOR! It is simply the best in the industry.

Includes the following models:

Buick LaCrosse, Buick Terraza, Cadillac STS, Chevrolet Cobalt, Chevrolet Equinox, Chevrolet Uplander, Chrysler 300, Chrysler PT Cruiser Convertible, Dodge Magnum, Ford Five Hundred, Ford Freestyle, Hyundai Tucson, Kia Sportage, Land Rover LR3, Lexus RX400h, Lincoln Mark LT, Mercury Mariner, Mercury Montego, Pontiac G6, Pontiac GTO, Pontiac Montana SV6, Saab 9-2x, Saab 9-7x, Saturn Relay, Scion tC, Suzuki Reno, Volvo V50, and more.



New Wilson Models



Wilson Safe Company has four new models. The Model SC001EN is the company's smallest fire safe and can be ordered with a digital electronic lock for quick and easy entry. The CashTrak2 is a bill accepting system with heavier construction a Mars modular validator and a unique design service door.

Also new is a line of electronic locking key cabinets, which are available in three sizes: 64-key, 100-key and 200-key. The cabinets utilize the digital electronic lock system. The company also has a new series of UL RSC rated burglar fire safes, which have a 90-minute fire rating and come in five sizes. **TRL**



Emergency Response Kit:

Deluxe soft case, Super Air jack, One Hand jack, Super One Hand Jack, Glass Man, Rubber wedge, Remote control Button Master, Mighty Max 2 piece Long Reach tool, Flexible Long Reach Tool

Sale Price # ERK \$129.95



Value Set: Standard Soft Case, Two Volume Car, Truck, and SUV Opening Manuals, 12 Chrome Tools, Tough Wedge, Wedgee Wedge, Strip Savers, Super Strap Tool, Slim Jim, Training Video. **Item# AM04VS- \$119.95**

Lightning Rod

The lightning Rod™ uses the same shielded glow in the Dark technology as the SQM long reach tool, but includes a Lighted tip that illuminates the inside of the vehicle so you can see what you're doing in the dark or through tinted windows.

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One Hand Jack

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One Hand Jack Set: Shielded Quick Max Long Reach Tool, One Hand Jack Tool, Air Jack Air Wedge, Super Strap Tool, Carrying Case. **Sale Price #OHJS4 \$54.95**



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Unlocks vehicles with Vertical Buttons. Just Hook the door lock button with the loop, and pull on the control knob.

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Our Long reach tool is flexible and Coated with a Scratch free Polymer.

Free GlassMan™ Tool

Makes unlocking vehicles with frameless windows and cabled locks quick easy and safe!

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Our exclusive Medium and Heavy Duty Truck opening set, unlock every truck even 18 wheelers

Free Information Manual

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THE DEFINITIVE GUARDIANS OF SECURITY

With more and more businesses being required to keep sensitive, valuable, or irreplaceable items in a locked security container, along with the need to keep valuables secure, safes are the answer. Available in all shapes, sizes, UL ratings and security level offerings, there are a wealth of choices to make.

A&B Wall and Depository Safes

A & B Safe Manufacturing's line of wall safes are available in three popular sizes 4, 6, and 12-inches

deep. The three models come in either painted or stainless steel finishes. Mechanical combination, high security key or high security electronic locks are available. A&B Safe also has over 75 models of depository safes and chests available for immediate delivery from stock.

The Advance Metalworking Co.

Locksmiths can stop, drop, and load their safe cargo faster and more efficiently with a Lo Riser Inclining Platform Trailer. The Lo Riser Trailer features a 74" x 14' 8" load carrying platform that can be hydraulically lowered to ground height with a flip of the control switch. The built-in ramp then allows easy, drive-on access for quickly loading or unloading cargo or equipment. When lowered, the trailer allows a minimum 5 degree angle ideal for low ground clearance or reduced grade ability vehicles. The simple operation, unique flexibility and



enhanced safety allow for one person to load and transport up to 10,000 lbs of cargo.

The Lo Riser Trailer is constructed of HSLA steel, not angle or channel iron, easily providing approximately a 4 to 1 payload to trailer weight ratio. Six "D" ring tie-downs will secure your heavy equipment while the built-in tie-down rails provide added security for various other types of cargo. Diamond plate flooring, LED lighting with 7 pin connector and electric brakes on both axles complete this package.

AMSEC

The new BF® Series Gun Safes feature DryLight, AMSEC's Advanced Poured Concrete Material that provides a dry and seamless barrier to protect valuables against intense fires and burglary attacks. This 90-minute Fire Rated safe also features a door over 4" thick constructed with a 1/2" Thick Steel Plate, 1" DryLight insulation, a 2" thick body consisting of an outer and inner steel liner enclosing a DryLight fill, high grade commercial quality hinges, 10 massive 1-1/2" locking bolts and a dual fire seal system around the door.



Quality styling includes a unique mirrored back wall for higher interior visibility, bold zinc die cast exterior logos in polished brass or chrome, adjustable interior shelves fully upholstered in a plush velour fabric, and your choice of four hand painted high-gloss and four textured finishes.

Buddy Products

Buddy Products Drawer Safe, fits into any drawer or mounts to any wall. Securely store cash, jewelry, stocks, bonds, etc. while keeping valuables within reach at all times. Shelf is included for ample storage space.



Heavy-duty 11 gauge steel construction and programmable electronic keypad make this Drawer Safe extremely secure. Felt with pressure sensitive adhesive lines the inside walls and shelf. Faceplate removes to reveal a backup key lock in case of battery failure. Two keys and mounting hardware are included. Four AA batteries needed, batteries not included. Unit measures 11-7/8" w x 4-7/8" d x 14-7/8" h.

Corporate Safe Specialists (CSS)

The ACCS is an information safe. The safe combines the latest technology with the most advanced auditing tools. The ACCS brings labor savings to any store by reducing reconciliation time at shift close.

The Bulk Note acceptor allows users the ability to deposit up to 20 notes at a time. If a store has heavy



cash volume the BNA can provide several benefits. Bills are automatically validated and recorded for ease of auditing and are secured in a 2,000 note cassette.

The user-friendly software application supports dial up and can easily interface with a back office system or POS system. The ACCS verifies what is in the safe when and where the user needs to know it.

Fort Knox Guardian

The Guardian Series of safes from Fort Knox Security Products now has a standard reinforced fire door. The door nearly doubles the fire protection of the Guardian, moving it to 1,680 degrees in 90-minutes. The Guardian Series also has patented star corner bolts, a 5 to 1 reduction rack and pinion multi-gear drive locking system and a four stage, high luster baked acrylic urethane metallic finish. Fort Knox offers a lifetime warranty, which includes Sargent & Greenleaf locks



Gardall Safe Corporation

Gardall's line of "B" rated money chests are available in three different sizes with S&G combination locks or as an option a six-digit push button electronic lock. All models are available with a 1/2" plate steel door, 1/4" steel body, five active 1-1/4" bolts in the boltwork, a full length locking bar on the hinge side of the door and an independent relocking device to prevent a drilling attack.



ic lock. All models are available with a 1/2" plate steel door, 1/4" steel body, five active 1-1/4" bolts in the boltwork, a full length locking bar on the hinge side of the door and an independent relocking device to prevent a drilling attack.

Dynavault by Hayman Safe Company

The affordable DynaVault line is designed for customers looking for security and fire protection in a B-rated safe. It offers the features of a BF safe at a B-rated safe price. DynaVault carries the manufacturer's 1-hour fire label.

Setting DynaVault apart from other mid-range safes is a unique locking system. It features NO



InstaCode 2005

W.H. Software

Locksmith Management Software

InstaCode Software has changed to fit new market demands. The software is now offered as a base package, with available add-ons. The base package contains all the codes, card printing, electronic key machines, find partial bittings, cutting trees, graphical layouts, etc.



Base Price \$695

Add-Ons Include...

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Information/Programming**

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\$300 for Both

MasterKeying

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\$185 each

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for 10 days.
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Includes
all modules.

System Requirements:

InstaCode is supplied on CD ROM and comes complete with an easy to follow step-by-step instruction manual. InstaCode requires 64MB of free RAM and 100MB of available Hard Disk Drive space, mouse or other pointing device and one of Windows NT, 2000, XP or 2003. Floppy disk images are included on the CD ROM so you may make your own set of floppy disks if required.

Pocket InstaCode requires a Pocket PC (not included) with 64mb RAM running Microsoft Pocket PC2000 or later. Contains all the codes but not all the features of InstaCode. Call for details.

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locking bolts. Upon closing, the steel framework on the back of the door slides behind the doorframe, securely locking the safe.

The photographs show the smooth lines of the DynaVault with its concealed hinges, making it attractive as well as functional.



HPC Wall Safes

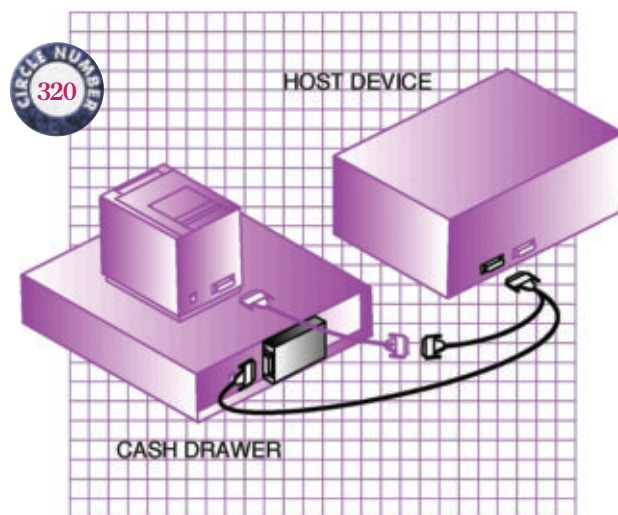
Security has become extremely important to most people. As Security Professionals, you already know how to secure your customers' premises. Often people ignore the need to secure valuables in their home or business. By supplying them with a safe, you can provide them with added security for their money, jewelry, and other valuables. HPC has been manufacturing safes for over 10 years. The safes are designed for mounting within a wall in homes, offices, and retail establishments. They are available in two sizes; the small version has an interior capacity of 475 cubic inches, the large safe has an interior capacity of 670 cubic inches. Both sizes are offered with two different options for locking mechanisms; a 7-pin tubular lock or a combination lock. The combination lock is the LaGard model 3330 Group 2, that allows over 750,000 possible combinations.

The safes are made using 18-gauge steel. The lock area and door face use 14-gauge steel for greater security. All locking points and hinges are made with dual reinforced steel for added strength in these critical areas of the safe. The safes are finished with a textured paint in a neutral sand color, allowing them to fit in with most office environments. The hinge and lock

mechanisms are below the surface of the door, allowing the safe to be mounted flush with the wall. This makes it easy to hang a picture over the safe to hide its location in a home. Even with these many features, these safes are priced very competitively. For complete details on the HPC Wall Safes, please visit the Security Storage section of our web site, www.hpc-world.com or contact an authorized HPC distributor.

Indiana Cash Drawer

Indiana's new SPI interface has been designed to provide a simple means of attaching and operating cash drawers with computers and other devices capable of RS232 serial or parallel communications. Features of this new product include: serial and parallel interfaces in one unit; a built-in self-test feature; single or double ASCII character opening codes (DIP switch selectable); LED indicators for trouble shooting or diagnostics; detachable interface cable; and external power supply for universal applications.



In serial applications, the interface supports 2400 or 9600 baud rates. Serial units can also monitor drawer status. For parallel applications, cash drawers can be utilized as in stand-alone configurations or daisy-chained.

Inkas Super Tuff

This unit is the original composite burglary and fire resistive safe you can trust!

The "Super Tuff" is designed for business and residential use, for those who need the right kind of protection without the intimidating size and cost of most high security

Some of the features that make our "Super Tuff" an ideal product for the consumer are:

- Similar construction to a TL-15
- E-Rate body design
- 1-1/2" steel bolt work

Continued on page 24



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CIA Technical Security Officers configure, deploy and maintain a variety of security systems, regularly working with US- and overseas-based Security Officers to coordinate programs. They also perform administrative duties, as well as working with and lifting heavy equipment. After a few years' experience, you may be asked to serve in an overseas assignment.

Minimum requirements include a bachelor's degree in engineering or an associate's degree in electronics technology. In lieu of a degree, a certificate of completion for equivalent military, commercial or industry-recognized electronics school or training programs, or comprehensive work experience, may

be accepted. Candidates must be proficient in the field of electronics, or in an electromechanical environment. Knowledge of electronic and/or mechanical safe/lock servicing, alarms, CCTV, and experience working as a locksmith are ideal. Several years of service in the corporate security field are also preferred. Overseas experience is desired but not required.

For additional information and to apply online, please visit: www.cia.gov and view under "CIA Careers" — "Engineers and Technology" — "Technical Security Officers."

All applicants must successfully complete a thorough medical and psychological exam, a polygraph interview and an extensive background investigation. US citizenship is required. EOE



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Circle 251 on Rapid Reply

Continued from page 22

- 1-1/2" Sophisticated independent re-locking devices
- Heavy duty adjustable hinges
- U.L. Group 2 locks
- Large "Drill Beater" hard plate to protect the lock and mechanism.
- Full composite construction
- Manufacturer rated 1 hour fire label



The "Super Tuff" is so popular that it represents 60% of INKAS high Security safe sales. The Financial sector, Government agencies, and Jewelry stores use this product

LaGard's Smartline Multiple Door Safe Lock

The SMARTLINC multiple door safe lock by LaGard provides the capability of managing up to five independent locks in a multi-compartment safe. A manager and as many as eight additional users can be assigned to each of up to five locks controlling multiple locks through a single keypad allows for simplified programming of the locks and easier access to the various inner compartments. A single keypad managing all locks also greatly reduces the costs for each unit.

For added security, default lock codes have six digits (with an option to program the lock for seven-digit use), and the safe lock can be optionally equipped for a silent signal (duress) alarm. The installation of this option also allows the lock to be deactivated while the alarm system is "ON," with access denied until the alarm system has been turned "OFF." Additionally, it can offer the capability of denying access remotely.

Each lock can be programmed for time-delayed access. The customized time delay can be programmed from one to 99 minutes, while the open period can be set for one to 19 minutes. Every

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operation, or program change, is recorded in the audit information.

Lund Dual Lock Key Cabinet

Lund Key Cabinets are manufactured from 18-gauge office furniture steel with electrically welded construction. They are finished in a durable, baked on gray enamel. Lund Equipment offers more than 70 different styles of key cabinets and files with capacities from 10 keys to over 3000



keys. They are one of the last manufactures that still make large, high capacity key cabinets. Lund has floor cabinets that organize up to 2280 keys and four drawer (file type) key cabinets that will hold 3312 keys.

The dual locking key cabinet shown uses a single tag key control system. There are no numbers on the key hooks, in a two-tag system all hooks are numbered by labels that fit over the hooks.

The Lund key Cabinet shown requires two keys to access it completely. It has a locking exterior door, as well as an inner compartment that locks with a different key. The hinged outer panel holds 100 keys. The inner compartment holds 50 keys and is designed to provide two levels of access security in a single cabinet. The model shown is 17-1/2" wide x 25"high x 2-3/4" deep. Other sizes are also available.

Perma-Vaults In-Room ADA Applicable Safe With Audit Trail

Perma-Vault, has a new state of the art card swipe as well as card swipe/pushbutton-lodging safe available through locksmith distributors. The new safe has audit trail capability of up to 400 events, depending upon model, and operates with an electronic locking mechanism enabling the user



to choose three different systems: functioning by credit card or magnetic card, functioning by digital electronic code, or functioning by either system as the user desires. The swipe and pushbutton dual card operation allows the lock to be used by two people. Built-in security lockout on all models automatically shuts down the lock for 15 minutes after four wrong code entries.

Safes are designed to store such items as laptop computers in a dorm room, handguns at police academies, personal property in a hospital or hotel room, or similar applications. Some sizes are available with a shelf. Motorized mechanisms make the safes ADA applicable. Safes can be mounted to the floor, a pedestal or to furniture or shelves. A "battery low" detector and warning will tell when the power level is getting to a critically low level. A logger unit can be used for emer-



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gency openings and programming, meaning that no override keys, which might compromise security, are needed.

PRO-LOK Lap Top Electronic Safe

There is a new addition to the PRO-LOK affordable electronic safe line. Due to the overwhelming success and demand for the GLSF-08 and GLSF-10 safes, PRO-LOK recently added a deposit slot model #GLSF-08S. Now, to complement the current 3 models, PRO-LOK has just added a fourth model. The NEW GLSF-15 Laptop safe is ideal for dorms as well as anyone who needs a wider safe door to fit most laptop computers inside.



Although designed to accommodate most laptop computers, this new safe size can be sold to anyone who prefers or is in need of a short but wide safe because of specific contents or space restrictions.

The safe has 2 chrome bolts and an electronic push button combination that can easily be programmed and re-programmed in seconds by the consumer. The keypad comes with 4 AA batteries and for back up, the safe is equipped with a key override lock. Another added feature is that 4-lockdown bolts are provided to aid in anchoring the safe to a stationary place. The outside dimensions are 17-1/4" x 17-1/4" x 10".

S&G Biometric Keypad

Sargent and Greenleaf's new biometric keypad is designed for a quick and easy retrofit upgrade to S&G electronic locks. Top mounted fingerprint technology for easy accessibility. Backlit LCD display makes set up and operation simple, even in low light environments. Set for fingerprint only, PIN only or fingerprint + PIN access control. External two-battery compartment makes battery changes a snap. The keypad will be available in a variety of finishes from S&G Authorized distributors third quarter 2005.

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Wilson Data/Media Safes

Wilson Safe Company's Data/Media Safes with a digital electronic lock are designed for small and medium businesses with increased storage requirements. One of the strongest potential markets for the locksmith to tap is the health care field where regulations are forcing hospitals and private practices to store data in secure and safe places for several years.



Wilson's Data/Media safes keep the internal temperature below 125 degrees Fahrenheit and the humidity level below 85 percent. Several fire testing laboratories, including the Swedish National Testing Institute, have tested the safes at a temperature of 1,832 degrees Fahrenheit for over one hour with internal temperatures remaining below 122 degrees Fahrenheit, resulting in the safes being awarded a 1-1/2 hour label. **TNL**

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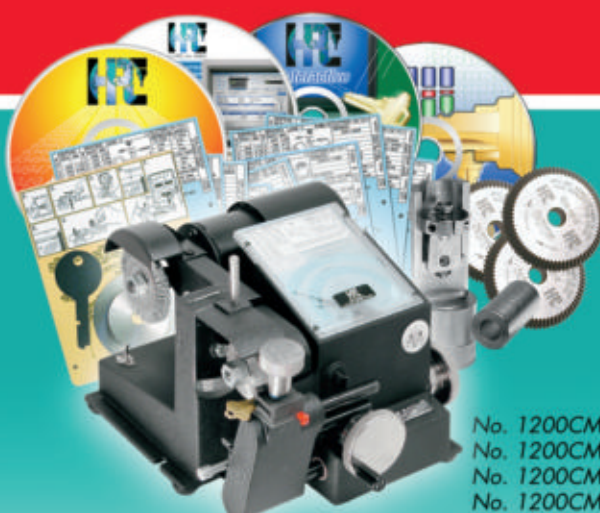


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2001 LEXUS RX300

IGNITION CYLINDER

BY MICHAEL HYDE & BROOK FRANCISCO



1. The ignition lock found on the 2001 Lexus RX300 is similar to many others found on today's Toyota and Lexus vehicles. The most significant design development with this new generation of ignition locks has been the introduction of the improved hardened face cap that is secured by three solid roll-pins. This model uses the new internal cut High Security Lexus short key blank (TOY 48 BT4) and the code series is 40,000-50,000. This code series has 3 depths; 1, 3 & 5 and the code series is unpublished at this time. Lexus has had problems with these ignitions since they were introduced and has had to eliminate many code combinations in the series because the key would pull out in the "RUN" position. Auto Security Products part number for this particular ignition is C-30-192 and the wafer kit is A-30-111. Original Lexus part number is 89073-48020.



2. The first step is to remove the three solid roll-pins that secure the hardened face cap to the lock housing.



3. The two roll pins behind the "LOCK" and "START" positions are fairly easy to remove. Insert a sharpened drift punch between the lock housing and the back of the roll-pin at an approximate angle of 55 degrees. The idea is to get the punch to make contact with the back of the roll-pin and push it forward.



4. Hit the punch sharply with a hammer. The punch should push the roll pin slightly forward. Note the position of the roll-pin as it has been pushed forward. Repeat the process for the roll-pin behind the "START" position.



5. Next, insert a hook pick behind the roll-pin and push it out further. You don't need to remove them completely, just push them out enough so they have clearance over the lock body housing when the face cap is removed.



6. The third roll-pin, located at the 6 o'clock position is a little more difficult to remove because there is no easy way to push it out from the back.



7. After securing the lock horizontally in a vise, use a sharp drift punch and a hammer to push this pin downward into the soft lock cylinder.



8. You will be able to feel the pin "sink" into the cylinder as you punch it. Don't go crazy here, you just need to push it down far enough to allow clearance for the face cap to come off.



10. Use a regular drift punch and hammer to remove the facecap from the lock assembly.



12. The remaining pin must now be removed.



9. Now remove the lock from its horizontal position in the vise, and secure it vertically as shown. Note the position of the active retainer that helps the lock from slipping out of the vise.



11. Now that we have the facecap off, we can easily remove the third roll-pin that we hammered down into the cylinder.



13. Use a pair of long nose pliers to remove the remaining pin. It will come out easily.

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14. Use snap-ring pliers to remove the circle-clip at the rear of the cylinder.



15. With the key inserted in the cylinder the plug will now come out the front of the lock. Lift upward on the key buzzer and be careful that the key does not jump out of position when you are removing the cylinder from the housing. If this happens, the cylinder may become jammed and you will have a very expensive paperweight.



16. The lock and all its components.



17. The customer had a new key from Lexus.



18. Decoding it we can see the left-track cuts bow-to tip are: 1-3-1-3-5. The right-track cuts bow-to-tip are: 3-3-1-1-1. Remember, the 1's are the deepest, and the 5's are the highest.



19. Here are the wafers 1, 3, and 5. You can see the differences in the small notch in the lower right corner of the wafer.



20. The cylinder pinned correctly: 

Jake talks about his new book...

ALUMINUM STILE DOOR SERVICE AND REPAIR



In *Aluminum Stile Door Service and Repair* I endeavored to take the mystery out of aluminum stile door service, repair, replacement and refurbishment.

I outlined easy ways to replace a pivot, a lock or a concealed vertical rod. I show how to diagnose, repair, adjust or replace an overhead concealed closer or Rixson floor check.

In this book, you can:
 Learn the difference between a "stile" and a "style".
 Replace a surface mounted closer or deactivate a pivot with equal ease.
 Adjust a malfunctioning Jackson CVR or electrify a lock.
 Learn how to "take down a door" or replace a frame or add a mullion, or install a magnetic lock.

In 423 pages, with 758 photographs and illustrations, I show you how to make some really swinging profits by installing hinges, butts, closers, floor checks, over head concealed closers, panic hardware, locks, latches, dust-proof strikes, new doors, frames and electronic access control.

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Circle 225 on Rapid Reply

Biz

Breaking In New Employees

by Sara Probasco



If you're not working for someone else, and if you're not a one-person operation, chances are, you have at least one employee—unless, of course you have a devoted spouse who's a slave to your demands and willing to work for peanuts.

Since the latter seldom exists in our society these days, let's assume for the moment that you either did, or someday will, seek, hire, train, maintain, and possibly fire one or more persons to work under your direction and supervision for wages.

Finding the right employee for the job may well be the most difficult element of this process for locksmiths. It almost goes without saying that the selection process can only exist from among candidates who have a spotless record with law enforcement agencies as well as strong ethics and morals. The latter you may (hopefully) determine by thoroughly checking their references and by talking to people you know who know them personally.

We've pretty much given up on media advertising for employees, for the simple reason that it takes so much time and money to sort through the many unqualified people who apply. We've had difficulties with job-placement entities for the same reason, and our state youth job-corps does little effective screening as to age and abilities, sad to say. Our best bet has been putting the word out

among other business people in the area who are aware of our basic qualifications.

There's a reason why big business seems to be drowning in paperwork. It's called avoiding problems such as major headaches and lawsuits. Don't made the mistake of thinking such things can't happen to small entrepreneurs, as well. When taking on a new employee, you may save yourself a lot of grief by entering into a formal, signed employment agreement, going in.

As a protective measure, we recently altered our entry paperwork a bit to include a "trial employment" agreement for novices to the trade. Basically, it states that the new employee is being hired for only a specified length of time (we usually go for 2-3 months, max, feeling we should know by then if he/she is going to work out). At the end of that time, his/her employment with us ends, as agreed, but he/she may then re-apply for "permanent" employment as an apprentice locksmith. His/her application will then be considered along with any other candidates who may have completed the same level of basic training either with us or by other means, such as working for another locksmith, attending a locksmith school, or taking a correspondence course. It works for us and allows us to cull those who don't seem to be catching on without having to "fire" them.

Another form we ask new employees to sign is the non-competition agreement. We've heard they're not worth the paper they're written on, but we haven't found that to be so. Maybe that's because ours reads a little different from most. In ours, the prospective employee agrees not to compete with us within a fifty miles radius for a period of three years. During this time he/she may not compete with use by using any knowledge gleaned or contacts made while in our employ. Basically, this means they can neither work for another locksmith nor operate on their own either mobile or as a storefront business in the "forbidden" area for three years.

The basic difference I've seen between our contract and others is, we also state where they CAN work. For example, they are free to work at places such as Wal-Mart or Home Depot cutting keys and/or selling locks, etc., so long as they are neither instrumental in originating any locksmith service not previously in place at that store prior to their employment, nor in teaching others anything they learned while in our employ that is not already included in the new employer's training program. They are also free to work as in-house locksmiths for apartment complexes, educational facilities, hospitals, etc., by filling a position already established and in operation prior to their employment there.

Okay, so you've hired somebody and gotten all the paperwork signed. How do you train them, especially if they've never seen the inside of a locksmith store before?

The first thing to remember is, people learn things in a lot of different ways. Some learn best by reading, some by hearing, others by writing, still others by observing. If you can determine how each of your employees learns best, use that method to teach him/her. It will ensure a quicker, more effective transfer of knowledge from employer to employee. But be aware that repeated hands-on experience has proved to be the very best way to teach most adults, regardless of other methods used. (And yes! you CAN teach an old dog!) Just remember, no matter how you teach your employee, you should reinforce that information by direct on-the-job application as soon as possible to make the task relevant.

Pay close attention to their inherent skills and attitudes. Do they follow instructions accurately and willingly? Can they take what they know and apply it to what they don't know to solve a problem? Do they realize that mistakes are a necessary part of the learning process, so long as they learn from them and don't repeat them?

Keep in mind that in the locksmith business there are a lot of things every employee needs to know besides key identification and the mechanics of locksmithing. For example, what are your basic

business policies, practices, and procedures? Your employees need to know. Print them out and give it to them. (And if you don't have these clearly enough established to print them out, get busy. You need to know what they are, too.)

What are the rules of the various road-service providers where filling out their paperwork is concerned? I hear a lot of locksmiths complaining about having trouble collecting their fees from road-service companies. More times than not, it's because the paperwork isn't properly filled out according to the particular road-service company's requirements. You'll save yourself a lot of headaches by teaching employees right off the bat that the job isn't over until the paperwork is done, and that means done correctly.

What about your in-house paperwork? Do you accept credit cards? If you use an electronic credit-card machine, be sure they know how to run both debits and credits. We found the hard way that running either incorrectly can result in mega headaches—especially if nobody catches the mistake at the time. And, by the way, don't assume they know how to use a computer or a computerized cash register, if you have those. They may have slept through those classes in school or be of an age never to have been exposed to them before.

Basically speaking, if you don't know what they don't know, you need to ask them.

Okay. That's enough for one session. I'll cover how to maintain good employees and firing bad ones in a later article. If there's anything you specifically want me to cover, drop me a line at *The National Locksmith*.

Now get out there and apply these principles to your employees, old and new.

And if you don't have employees, apply them to yourself

NOTE: In the February 2005 issue of BizWiz, I recommended giving the original of a triplicate invoice to the customer. We've done this for over twenty years with no problems. However, Greg Rash (President of The Master Locksmith Co. in Sequim, WA) pointed out to me that in at least some states, "only the original copy with the Original signature will hold up in court should you have to go there to collect." You may want to check this out in your locale before giving away the original.

TNL

Looking for more in-depth information to help you master "The Business of Locksmithing."? Sara Probasco is now offering a limited number of "encore" presentations of her important full-day seminar to locksmith meetings and conventions across the U.S. and western Canada. For more information, have your area, state, or regional locksmith-association representative contact her at donsara@hilconet.com.

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CAM AND CABINET LOCKS

No longer just a simple 4 or 5 wafer lock with a locking bolt, cam and cabinet locks can be highly specialized and offer various levels of security. The range, applicable functions, and design offerings are staggering.

Abloy

Abloy Door Security offers the Industry's most complete line of high security cabinet and push type locks.



The Abloy Protec cylinder mechanism is virtually impossible to pick, has patent protected key control and almost one billion combination possibilities. Many major chain stores in North America choose Abloy's locks for their high security features along with Abloy's unique and trouble free rotating disc cylinder mechanism, which eliminates worn or broken keys.

Models include either flush or surface mounted locks with choices of deadbolts, spring loaded latches or hook type jimmy proof bolts with an optional key retention feature. Push type locks for sliding doors are offered for either wood, through the glass, or in the rail application.

All products can be keyed alike or master keyed and can be keyed to door cylinders and tubular deadbolts. Standard finish is 26D with all other finishes available.

ASSA

ASSA cam locks can be master keyed into the most complex key systems, including any ASSA master key system in existence, without the loss of any combinations. These cam locks use all nine bottom pins and all eight master pins. The locks also use special hollowed out driver pins that enable six-pin ASSA keys to enter and operate the lock. This allows users to upgrade their security by the installation of



these cam locks, without having to reconfigure the entire master key system. The locks have earned an Underwriter's Laboratory listing of U.L. 437, the rating given to locks that show superior resistance to physical attack or tampering.

The locks feature a body and plug made of chromium-plated brass. This tough design makes them perfect for use in all types of uses, such as inner safe doors and compartments, cash storage containers, drug carts, gun cabinets, key storage cabinets, and more. ASSA's cam locks are available in two versions: a 360° version that allows the lock to be left in the locked or unlocked position, and a 90° version that retains the key and only releases it when the unit is locked.

Combi-Cam

The Combi-Cam™ is a great solution in those environments where sharing keys amongst several people is a hassle. The combination of the Combi-Cam™ is easily changeable and replaces any 3/4" keyed cam lock. The durable Combi-Cam™ is solid metal, can be installed in a man-



Continued on page 36

Bianchi 303 - High Security Automotive Key Machine

\$ 1,799
+ s&h

The Bianchi 303 duplicates high security laser and dimple type keys. The robust construction and innovative design results in an extremely durable, precise and easy to use key machine. The 303 is the tank of its class at 51lbs and the heavy casting reduces vibration resulting in less noise, longer cutter life, and better cutting tolerance.

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- One-piece casting provides better tolerance and eliminates horizontal movement during cutting, common in two-piece roller guide designs.
- Micro-switch activated and semiautomatic key cutting operation.
- Large protective shield covers the entire cutting.
- Unique and safe single-mode system. Simply press the red button to calibrate and the black button to proceed with cutting.
- Electromechanical 360-degree calibration. Unlike competitive models, the horizontal depth and spacing (left to right and front to back) can be adjusted in addition to vertical depth.
- Capable of code cutting and duplicating additional lock systems using adaptors.



• We offer the largest selection of High Security Space & Depth Key Sets for originating a key.



• The widest selection of Dealer Only / Factory Keys.



ner that it is non-reset-table and has 1,000 possible combinations.

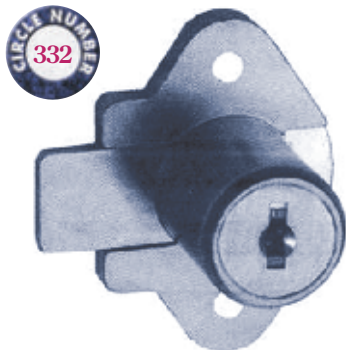
The Combi-Cam™ is available in 3 cylinder lengths - 5/8", 7/8" & 1-1/8" and comes standard with a pronged washer for wood applications, a 1/2" straight cam that can be placed in increments of 90-degrees and a 1-1/4" straight cam that can be placed in increments of 45-degrees. All sizes come in a chrome finish and the 5/8" also comes in black.

There is an optional 1-1/4" off-set cam available that when used with the 1-1/8" Combi-Cam™ gives a reach up to 1-3/8". An optional metal finger pull is also available. The Combi-Cam™ can be used for a variety of applications, specifically schools and hospitals, where keeping track of keys is a hassle.

CCL Security Products

CCL Security Products, formerly known as Corbin Cabinet Lock, has been a longtime supplier of Cabinet Locks and Cam Locks to the Locksmith industry. Celebrating its 123rd Anniversary in 2005. CCL Security Products produces Cabinet Locks and Cam Locks using both Pin Tumbler and Disc Tumbler keying systems. Regardless of the system, both systems can be master keyed to new or existing systems produced by CCL over the years.

CCL has also introduced a full line of Tubular Key Cam Locks. The products have been well received by both the Locksmith and OEM market



place and are featured in the CCL catalog. New products for the locksmith will again be introduced this year.

Over the years CCL pioneered many of the design specifications still used by cabinet and furniture manufacturers today. Locksmiths can confidently order CCL replacement Cabinet and Cam Locks for their commercial and institutional customers knowing they can count on the fact that today's dimensions, were yesterday's dimensions.

CCL Security Products are distributed by Security Hardware Distributor Association (SHDA) members on an international basis.

CompX Security Products

CompX Security Products continues to supply the locksmith community with the four branded products that locksmiths around the country have built their business and reputations on: CompX National, CompX Fort, CompX Timberline and CompX Chicago - representing over 250 years of manufacturing experience.

The breadth of products spans from: 5/8" die-cast disk tumbler cam locks to 1-3/8" solid brass pin tumbler door/drawer box locks, from 21 different styles of genuine factory replacement mailbox locks to gang lock systems, sliding door locks, filing cabinet locks, wood furniture locks with removable plugs to switch locks. CompX



continues to bring innovative products to the market, such as the new CompX eLock, and support the locksmith community as Associate Members of Associated Locksmiths of America and Security Hardware Distributors Association.

CompX Security Products' dedicated 500 plus employees located in four US facilities, welcomes the opportunity to provide quality products, experienced sales support and exceptional customer service.

CompX Security Products has the range of products you need and the quality of products you have built your business on. Demand CompX Security Products by name.

D.I. Services

The Modular V series lock is the latest innovation from DOM. This lock allows different body and tailpiece configurations with the ability to change the core without disassembly. Cam locks have for years been a staple of the industry. The larger problem has been finding a lock with the flexibility to perform the necessary functions, in a variety of materials, while still allowing the application of key control and masterkey. The "DOM" line of Modular V locks allows the user the ability to lock all styles of furniture, cabinetry, or containers, provide a lock of superi-

Continued on page 38



Security

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- This assembly provides the ability to adjust the monitoring switch to work with all applications.
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or quality, and has the required key capacity.

There is a standard cylinder, a profile cylinder with 30 unique key profiles and high security cylinder. In special instances locks can be custom manufactured for the application, as was done for a large manufacturer in the USA of high quality tool containers.

D.L. Services supplies locks keyed to the end users requirements in quantities as required.

Kenstan Lock Company

Kenstan Lock Company has introduced several new removable core show-case, cabinet, and door locks featuring Medeco High Security cores. Key control and the removable core capability/convenience offer customers a unique field replacement option.



Kenstan camlocks can field replace any camlock mounted in a 3/4" mounting hole. The deadbolts, latchbolts, standard and T Bolt sliding door plungers are supplied to replace locks mounted in industry standard 7/8" mounting holes. The Medeco removable core is interchangeable between all lock types and will also fit into a new industry standard size Mortise and Rim cylinders.

The removable core is extremely functional when keys are lost or stolen. Your control key swaps out old core for new in seconds. Cores can be ordered in our Kenstan Restricted keyway or your own Medeco keyway with a letter of permission.

Key Control Specialists

The FG778 Spring Latch lock is one of thirteen locks in the Convenience series operating off of the FG403KB double-sided reversible key. It is available keyed-alike or keyed different and comes with necessary mounting hardware and two pre-cut keys. The FG778 is available in a bright chrome finish.



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For increased security, the FG773 Control series Spring Latch lock (identical in size and shape) is also available to be utilized in the same 7/8" hole. Registered codes are available in the Control series lock system.

Medeco Cam & Cabinet Locks

Medeco cam locks use hardened, stainless steel inserts throughout the cylinder to provide the ultimate defense against drilling, pulling, and other forms of vandal attack. Patented key control programs prevent the unauthorized duplication of keys and maintain system integrity. Medeco cam locks can be keyed alike, keyed different, or master keyed. A complete line of various



cam lock sizes and functions is available to meet a broad range of needs for retail, commercial, institutional, OEM, or government applications.

Medeco IC-Core Cabinet Locks

Medeco high security cam locks are also available with a removable core feature. This allows cores to be easily and quickly replaced to provide an entirely new keying combination. For applications that require



instantaneous re-keying due to lost or stolen keys, or where periodic re-keying is done as a security measure, Medeco removable cam locks provide a cost-effective, and time efficient, solution.

Medeco Cabinet Locks

Medeco high security cabinet locks are specifically designed for drawer or cabinet door applications where a conventional utility cam lock may not be suitable. All Medeco cabinet locks feature



solid brass and steel construction, and are available with either a fixed or removable core.

Lockcraft® Surges Ahead

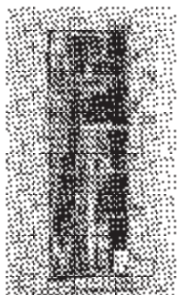


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Patented key control programs prevent the unauthorized duplication of keys and maintain system integrity. Keyed alike, keyed different, or master keyed, Medeco offers either spring latch or deadbolt models to meet a range of applications.

Olympus Cam & Cabinet Locks

The 754/854 cabinet locks come standard with 1-3/8" barrel length. The 754 is for a cabinet door application and the 854 is for a drawer application. Both door and drawer locks are non-handed.

The 754 and 854 locks ship standard with a matching notched strike. Optional internal



or external trim spacers are available for a flush fit on 7/8" material thickness and to provide additional reinforcement. The 754 and 854 cabinet locks are in stock and available for purchase now.

Olympus Lock's Versatile Pin Tumbler Cam Lock

Available in four lengths, this cam lock comes equipped with a patented cam shifting mechanism that allows one straight and one bent cam to lock in all positions including locking down. The



patented retainer staple makes plug removal, rekeying, and reassembly a breeze!

Olympus Reversible Spring Latch Lock

The L7080 will be offered in both door and drawer versions and with a 1-1/8" or 1-3/8" barrel length. Door locks may be ordered as left-hand or right-hand function. Drawer locks may be ordered as vertical or inverted function. Additionally, the L7080 is field reversible among all four handings.



An optional emergency release knob is available that allows the lock to be operated from the inside of the door.

Olympus N078 Pin Tumbler Cabinet Lock

This lock has been traditionally available in only a drawer version and with a 1-1/8" barrel length. Now they've added the additional functionality of a door version to the N078 product line.



The N078 will be offered in left-hand door or right-hand door function and will be field reversible between LH and RH for even more versatility.

A NOTE FROM THE CIRCULATION MANAGER

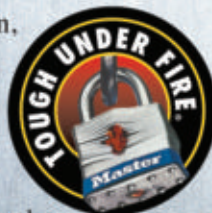
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Master Lock.

The *e*Lock

from CompX[®]

SECURITY PRODUCTS



by Richard Allen Dickey

CompX Security Products is a fairly new name to the industry, but the brands they carry go back over 100 years. CompX Security Products is the manufacturing umbrella for the former National Cabinet Lock, Fort Lock, Timberline Lock and Chicago Lock.

National Cabinet Lock, now CompX National, was founded in Rockford, Illinois in 1903. National Lock moved its cabinet lock manufacturing facility to Mauldin, South Carolina in 1982. National has been known for its disc tumbler locks to pin tumbler locks.

In 1998, CompX acquired Fort Lock, which is still located and manufactures lock products in River Grove, Illinois. Fort Lock, now CompX Fort, was founded in 1955.

In 1999, CompX acquired Timberline Lock, which is still located and manufactures locks in Lake Bluff, Illinois. Timberline, now CompX Timberline, was founded in 1982.

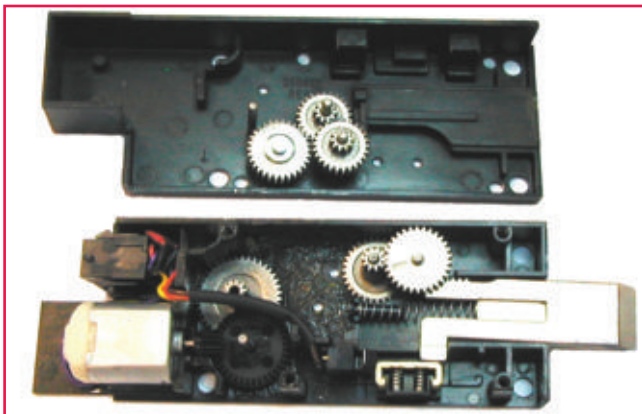
In 2000 another old industry standard was added to the CompX family—Chicago Lock. Chicago



1. The five new eLock's from CompX provide a combination of pushbutton access, magnetic card access as well as proximity access.



2. Here is a look at the lock mechanism.



3. With the cover removed, you can see a gear driven assembly that moves a metal bolt.

Lock, now CompX Chicago, was founded in 1920. All production of Chicago brand products are manufactured in Mauldin, South Carolina.

CompX Security Products offers over 1,500 products on the shelf at its two shipping facilities located in Mauldin, SC and Rancho Cucamonga, CA.

Today we are going to take a look at a new product that has been added to the line of products at CompX. It is called the "eLock". The eLock is designed for use on wood or metal storage cabinets. You know, the kind of cabinet that stores valuables or controlled substances like drugs and pharmaceutical supplies.

To meet the various requirements from its customers, CompX has designed five different interfaces (see photograph 1), to work with its new motor controlled cabinet lock, (see photograph 2). As you can see, there is a choice of, keypad only, proximity only, magnetic strip only, proximity with keypad and magnetic strip with keypad.

The magnetic strip reader is designed to read all type II cards that are in use today.

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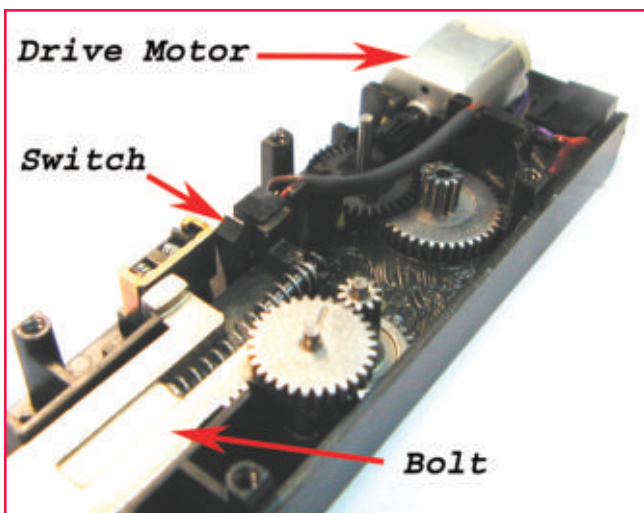
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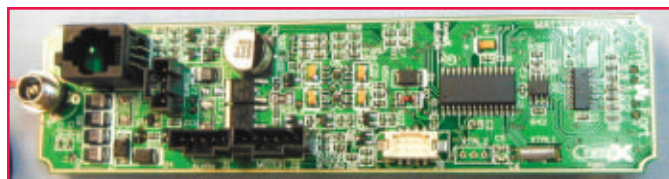
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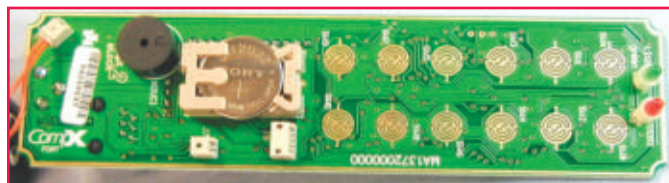
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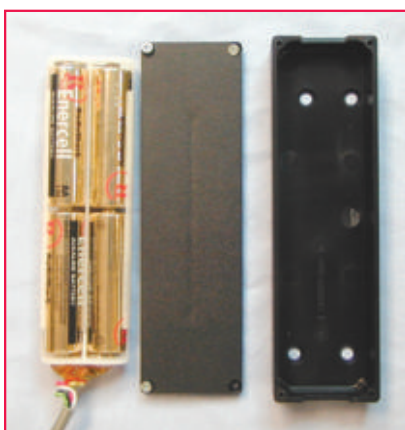
4. Here is a closer view of the motor drive assembly and bolt.



7. The circuit board is high quality and provides the circuit connections for the lock, power, alarm bell and computer connection.



8. A battery is used to power the eLock's internal clock. All user information is stored in non-volatile memory so it will never be lost.



5. One power option for the eLock is 6 VDC, provided by four AA batteries.



6. This is the keypad only model.

The proximity reader is 100% compatible with all "HID" proximity devices. These 5 interfaces should cover any requirement your customer may have.

The inside of the lock body shows that the bolt is retracted through the use of a motor drive and an assortment of gears, (*see photograph 3*).

The motor drive has been tested to over 75,000 cycled with no failures.

With the exception of two gears located in a low stress position, all of the components are metal. Obviously the most important location for these metal components is the gear that drives the latch and the latch itself.

In *photograph 4*, you can see the bolt in its locked position. When the motor drive is activated, the bolt is retracted until it is pulled back into a small switch that stops the motor. When it is time to release the bolt, the drive motor is reactivated. The bottom side of the gear that engages the bolt is missing some of its teeth. When the part of the gear without teeth passes by the bolt, the bolt is allowed to spring forward. As the gear continues to turn, the teeth reengage the bolt and hold it in place.

The entire unit is powered by either four AA batteries to operate at 6 VDC, or 12 VDC through the use of a plug in power supply, (*see photograph 5*). If the unit is used to operate an electrified door strike, the 12-volt power supply is required.

For simplicity, I will use the keypad only model for the rest of this article, (*see photograph 6*). There is no better place to start than under the cover, so lets take a look.

The electronic circuit board is very high quality. One side has all

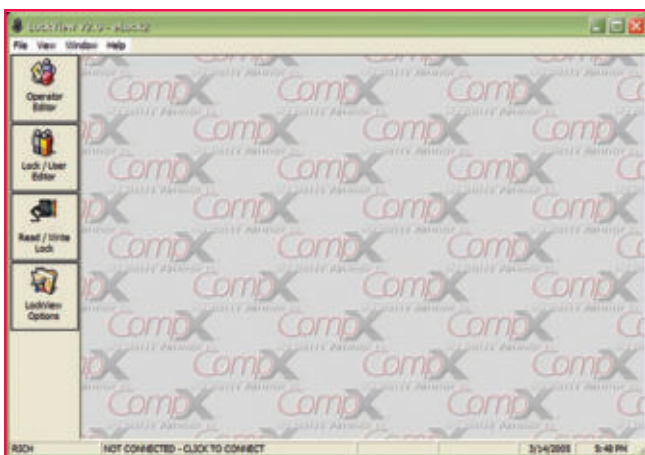
of the connectors for the power supply, computer connection, lock assembly and alarm bell, (*see photograph 7*). The other side has the contacts for the push buttons and a battery to power the internal clock, (*see photograph 8*).

This is a stand-alone lock and can obviously be programmed from the keypad with user and supervisor information. The lock is ready to use right out of the box. However, if you want to do some really cool things with the programming, a computer is required.

The software that is used for programming the eLock is called LockView, (*see photograph 9*). LockView is provided on a CD and is supplied with a special interface that is connected between the computer and the lock while programming.



9. Software with a special interface device can be used to program the lock.



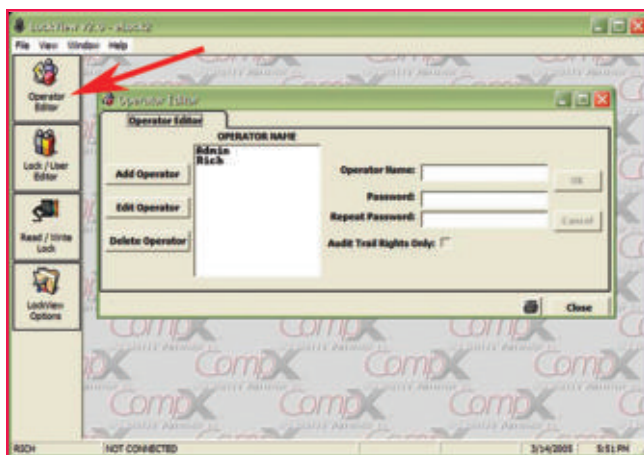
10. The LockView program is launched like any other windows based software.

For security reasons, this special interface is required.

After installing LockView it is launched like any other windows driven software. When started, the first screen requires a user name and password. The default user and password are "admin". If entered correctly, the main program screen will magically appear before your eyes, (*see photograph 10*).

From this screen you are able to create users, access rights, lock behavior and a lot more. I want to walk you through a few important parts of the software so you can see how easy it is to use.

The first thing that you should do is to create a new operator with a new password so the old admin user can be removed. This is for security reasons. Never leave a factory default user or



11. The first thing to do is add a new operator and delete the factory default operator.

password in anything. You are just asking for trouble.

If you click on the "operator editor" button a window will pop up that allows you to add, edit or delete an operator, (*see photograph 11*). An operator can have full access or only allowed to view audit trail information. The choice is yours.

The "lock/user editor" button will bring up a window with four





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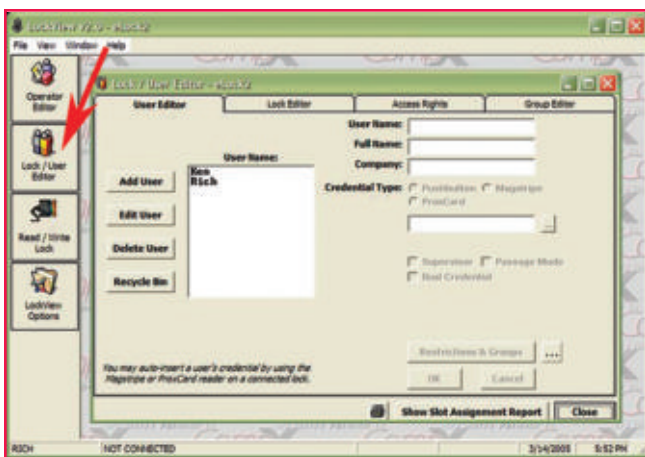
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12. The lock/user editor allows access to lock and user information.

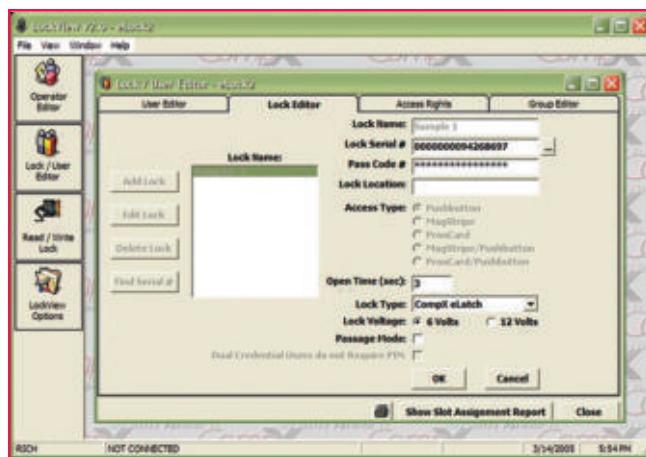
tabs across the top, (see photograph 12). The first tab is the “user editor” and is used to add, enter or delete users. At this point the users name is entered and the type of credential the user will be allowed to use is checked.

The “lock editor” tab allows you to add, edit and delete locks in the system, (see photograph 13). Adding a lock to the system is very easy. After adding the name of the lock on the right side, the lock serial number can be found automatically if the computer is connected to the lock. If the lock is not connected to the computer, the serial number can be entered manually. It is located on the back of the lock as well as on a sticker supplied with the lock.

Directly below the serial number is where the pass

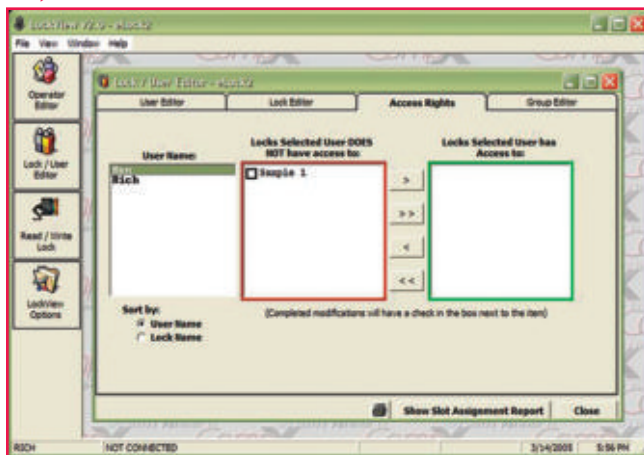
code of the lock must be entered. The pass code is supplied on the same sticker as the serial number and is required if the lock is to be entered into the system.

The access type for the lock, the open time, lock voltage and dual credential use is also entered at this time. The lock may also be set for passage mode if desired.



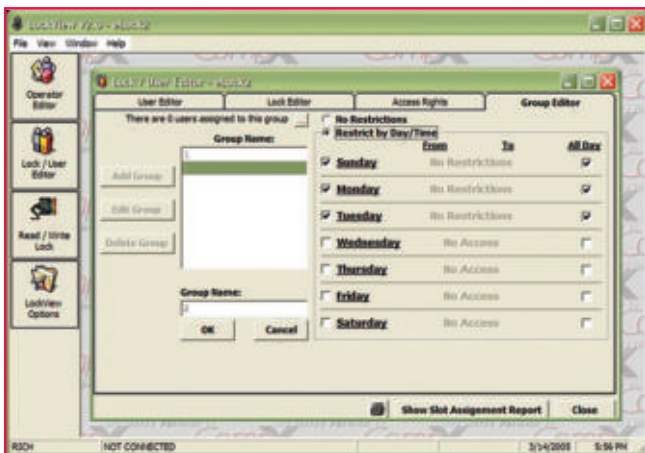
13. New locks are easily added from the lock editor tab.

The “access rights” tab is where each user is assigned to the locks that he or she will have access to, (see photograph 14). By highlighting the user name and the lock name, the “right” arrow between the red and green boxes can be used to shift the lock from the “user does not have access” side to the “user has access” side.

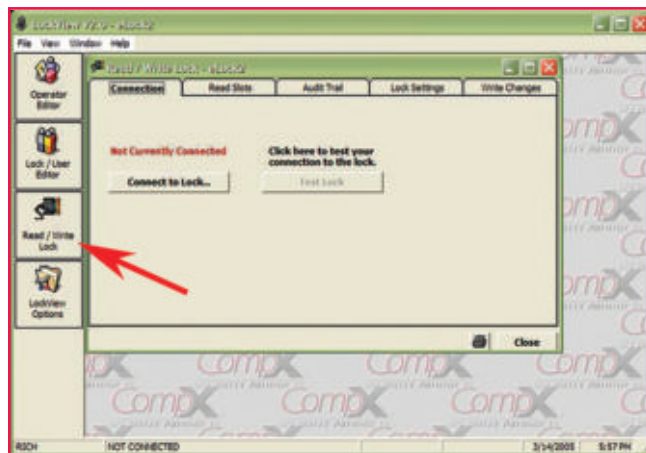


14. Users are only allowed access to the locks you want them to have access to.

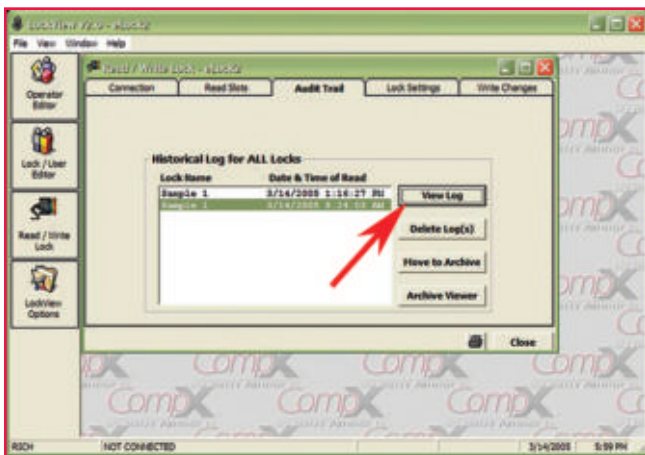
The “group editor” tab allows the operator to set up groups that are allowed access at specific times and not at other times, (see photograph 15). The group can then be assigned to a user. The idea is to allow the operator to restrict large numbers of individuals that require the same access by assigning them to groups instead of assigning each user their own individual restrictions. This can save a lot of time for the operator.



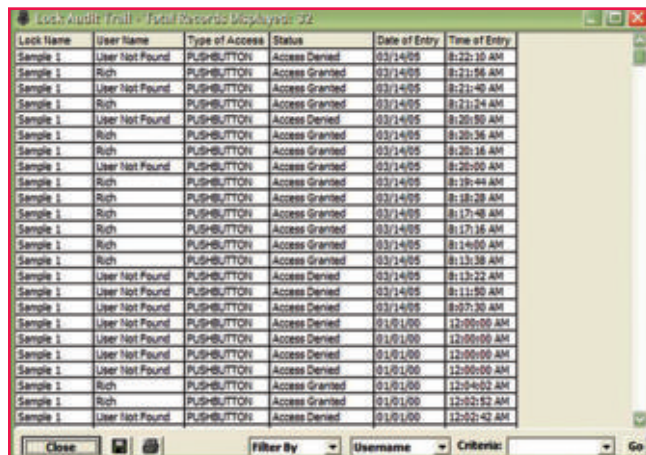
15. A group editor is provided to allow for a more efficient way to restrict the time that users can access a lock.



16. The read/write lock window allows retrieval of audit trails as well as downloading user information to the lock.



17. Viewing an audit trail is easy.



18. This is what it looks like.

The “read/write lock” button brings up a window with five tabs across the top, (see photograph 16). This window provides the ability to retrieve information from the lock including, audit trail and manually entered users. It also allows you to send information to the lock. This would include lock setting information as well as user information.

The audit trail records the last 1500 events. As you would expect, the newest information is always saved while the oldest information is deleted when space is required for more new information. The audit trail can be viewed while in the LockView software by highlighting what you want to view and clicking “view log” button, (see photograph 17). Photograph 18, provides a sample view of an actual audit trail.

This new product has a lot to offer its target market. With features like 250 users, bolt alarm and its ability for pre-loading, it should go a long way.

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Scorpion

High Security

SFIC



Many locksmiths may not be too familiar with the lock brand "Scorpion". The Canadian company makes lock hardware that includes a variety of sidebar enhanced high security lock cylinders. In concept, the Scorpion design high security lock cylinders bear certain similarities to ASSA and Schlage Primus (or now Everest Primus) high security cylinders. By that, I mean it has a conventional pin tumbler lock cylinder as its base with a sidebar that is separately locked in con-

junction with five independent side tumblers. The side tumblers are operated by a custom milled biting pattern that is pre-cut (at the factory) and never cut by the locksmith dealer. That also means that keys can be cut with standard code key cutting equipment without the need for special key milling equipment. Similarly, key servicing involves top loading through the tops of the pin chambers without special servicing attention to the sidebar portion.

The original Scorpion high security cylinders were conventional sized rim/mortise or knob style cylinders. It is now also available in a Small Format Interchangeable

by
Sal Dulcamaro,
CML



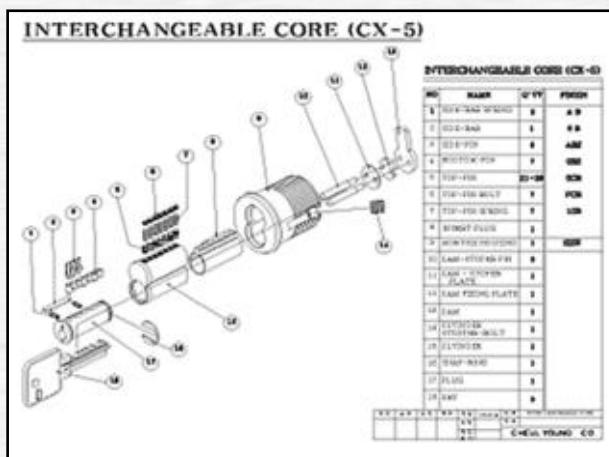
Core (SFIC) version high security lock cylinder, (see photograph 1). An exploded view illustration shows the internal workings of the lock cylinder, (see illustration A). The sidebar is found on the left side of the plug and interacts with four side pins as compared to the five side pins used with the original Scorpion cylinders.

Observed from the outside the Scorpion high security I-Core looks very much like any other standard security I-Core, (see photograph 2). If you

were to look into the keyway with a scope, you might be able to observe the extensions of the side pins that ride in the milled track of a Scorpion key. The milled track of the key is found on the left side and the brand logo is



1. The Scorpion is also available in a high-security small format interchangeable core.



A. An exploded view illustration of the lock.

**Continued on
page 50**



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embossed/coined into the bow on the right side, (see photograph 3).

Although a Scorpion I-Core is designed to be serviced like standard security SFIC locks, the fact that it has a clip to retain it allows you to remove the plug to see the parts more clearly, (see photograph 4). The plug from a 7-pin I-Core shows the seven standard pin chambers plus, off to the left, the four side pin chambers, (see photograph 5). Almost directly in front of (and in line with) the four side pin chambers is what looks like a fifth chamber. That is a hardened pin for drill resistance and there is a matching hardened pin (also just behind the plug face) opposite the side of the line of the standard pin chambers.

The Scorpion high security Small Format I-Core has the same figure 8 profile found in other brand I-Cores and will fit into SFIC housings. Standard I-Cores have two holes drilled through the back to engage two pins (or a tail piece) within an SFIC housing to allow the I-Core to engage the lock mechanism. The sidebar found on the left side of a Scorpion plug, however, prevents drilling the hole on that side as deep as the hole on the other side. That fact requires a few conditions or steps to make the Scorpion I-Core truly interchangeable within SFIC housings. A 6-pin I-Core is slightly shorter and therefore the hole behind the sidebar will be even shallower. Special modified tailpieces allow using the Scorpion I-Cores inside housings where tailpieces are used. By grinding or trimming one side of an existing tail piece, you can customize the situation yourself to adapt the tail piece to the Scorpion I-Core.

The situation gets a bit trickier with housings that use permanent fixed length pins to engage the holes in the I-Core. Unmodified, it will be impossible to insert a Scorpion high security I-Core into such a housing. A special tool is being finalized that will allow you

to trim one of the two fixed pins found in a standard SFIC housing. Once modified, the housing will allow proper insertion of the Scorpion I-Core.

If you look back at the removed 7-pin I-Core plug, you can approximate where they might have put a fifth side pin to make the SFIC version comparable to the other Scorpion high security lock cylinders which have five. Using your imagination to see that five side pin design, you will realize that it would give virtually no room to drill the second hole in a 6-pin I-Core. You can probably see why they had to settle with four side pins. The conventional SFIC pin chambers use standard BEST spacing and depths, and if you are already servicing SFIC you already know how to service a Scorpion I-Core.

Capping Scorpion I-Core Pin Chambers

I've already hinted that Scorpion uses BEST pinning rules. If you are already knowledgeable about SFIC lock servicing, you are able to work on the Scorpion high security version without special training. Just follow all the rules you currently follow. When you cut keys, use BEST spacing and depths. When you are coding the I-Cores, you can use the standard BEST pin stacks and rules. In fact, if you already have an A-2 pin kit that you use to service BEST or other brand Small Format I-Cores, you can use that same pin kit to code your Scorpion I-Cores.

There is one difference you will see, at least on the first release products, when it comes to capping the pin chambers after you load the pins and springs. In this original version Scorpion I-Core, the tops of the chambers are tapped to accept threaded chamber caps. I am holding a threaded cap on the end of a narrow tipped slotted screwdriver, (see photograph 6). Just below is an uncoded (except for side pins and sidebar) Scorpion I-Core with all seven chambers uncapped. Without any



2. The Scorpion high-security I-Core looks very much like a standard security I-Core.



3. A milled track is found on the left side and the brand logo is on the right side.



4. A clip allows you to remove the plug to see the parts more clearly.



5. A 7-pin I-Core shows seven standard pin chambers plus four side pin chambers.



6. A threaded pin chamber cap.




7. A slotted screwdriver secures the cap.

special capping equipment, I am able to screw in the chamber cap, (see photograph 7). The slots for the screwdriver are apparent.

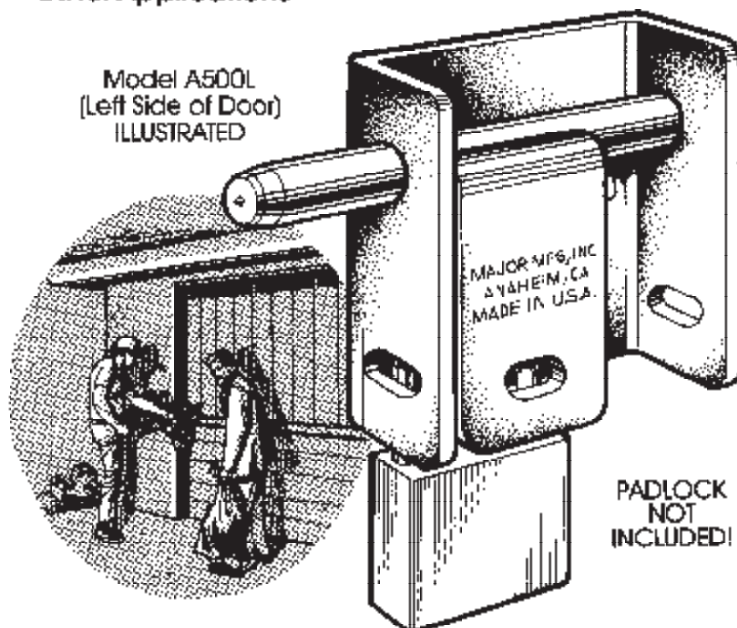
For the locksmith who only occasionally services Small Format Interchangeable Core, threaded caps are probably a convenience and simplify the job. Plus, as long as you don't lose the threaded caps, you can reuse the existing caps over and over. The Scorpion high security SFIC was pre-released to a number of locksmiths (and especially some very experienced institutional locksmiths) to get some feedback about the product and its various features. When doing high volume servicing of Small Format I-Cores, some of the locksmiths indicated that using pressed chamber caps was preferred for speed of assembly and general ease of servicing. I have been told that pressed chamber cap versions of the Scorpion I-Core are in the works. I've been given the impression that the threaded cap design will still be made along with a version using pressed caps.

The Scorpion high security Small Format Interchangeable Core product line is very interesting. I'm looking forward to see the final version of the tool that will trim the pin in conventional housings to allow use of a Scorpion I-Core.

For more information on the Scorpion high security SFIC product line or even the original Scorpion high security locks, call: 888/636-3460. You can also go online at: www.scorpionlocks.com. Circle 328 on rapid Reply. 

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C BEGINNER'S CORNER

Servicing the Simplex 1000, Part 2



by
Ken Holmlund

One of the most common service procedures you will be asked to perform on a Simplex 1000 lock is to change the combination, or either recover or establish an existing combination. To have a better understanding of these procedures, it is helpful to understand the mechanics of the combination chamber.

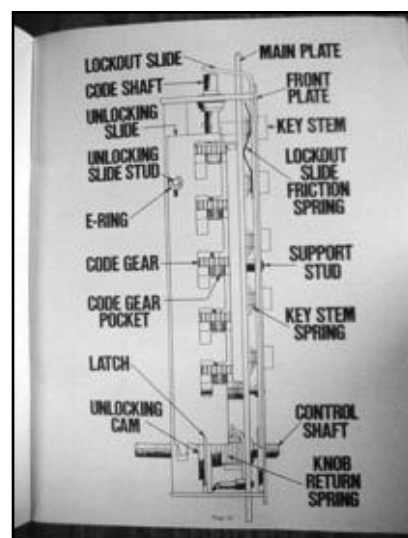
Access to the combination chamber is achieved by removing six screws that secure the back cover on the lock hardware, (see photograph 1). The combination chamber is connected to the clutch by a combination chamber link that is connected to the chamber linkage, (see photograph 2). Disconnect the E-clip holding the arm to the linkage (being careful not to force) and remove the two screws that hold the combination chamber to the lock. The combination chamber will now lift out easily.

This is the construction of the combination chamber as taken from the 1000 series service manual provided by

Kaba, (see photograph 3). I suggest getting one of these manuals if you do not already have one. OEM service manuals are a wealth of information, after all, who should know more about their products than the manufacturer.

The basic premise of how the lock works is that the unlocking slide is intended to move upward when the knob is turned clockwise. If the wrong combination has been entered, the clutch comes into play and allows the mechanism to turn without opening the door, (see photograph 4). If the correct combination is entered, the lock will open (see photograph 5) because the legs of the unlocking slide slip into the opening of the code gear pockets, (see photograph 6), and allows for the retraction of the latch bolt, (see photograph 7). This is a very complicated mechanical mechanism that was made simple by the engineers at Kaba.

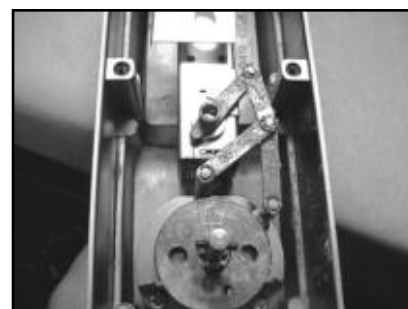
When you change the combination on the Simplex 1000, first press the



3. Construction of the combination chamber.



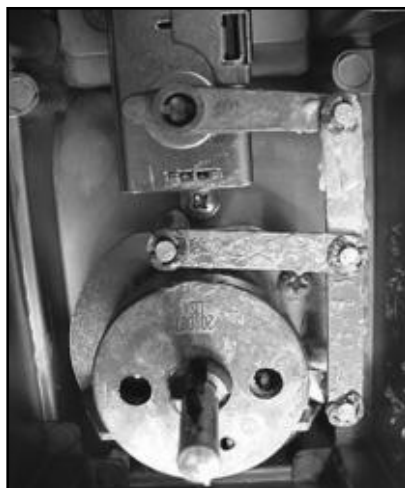
4. The unlocking slide is intended to move upward when the knob is turned.



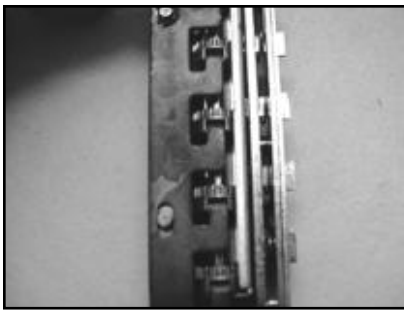
5. When the correct combination is entered it will open.



1. Remove six screws that secure the back cover.



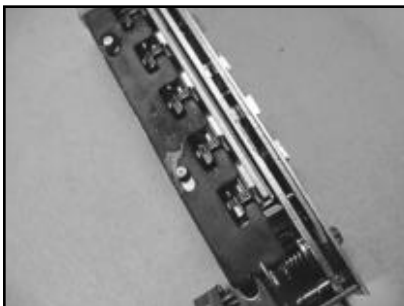
2. The combination chamber is connected to the clutch by a combination chamber link.



6. The unlocking slide slip into the opening of the code gear pockets.



7. Retraction of the latch bolt.



8. The code gears will not move, but will remain in line with the legs of the unlocking slide.



9. Insert the DF-59 control key into the combination change plug assembly.



10. Enter the existing combination and insert the spanner wrench.

buttons of the existing combination and then press the code shaft downward to disengage the code gears from the idler gears. When you enter the new combination, the code gears will not move, but will remain in line with the legs of the unlocking slide, (see photograph 8). When you turn the outside knob clockwise, you will engage the gears again and the new combination is active. I will now go through the procedure for changing the combination, step by step.

On models with the passage feature, make sure the passage feature is disengaged. The turn knob or key should be in the vertical position. If the

lock is a new installation and the combination has not been changed before, it will be the factory pre-set of 2 and 4 together and then 3. You will feel a slight click as each button is depressed.

To change the combination, insert the DF-59 control key into the combination change plug assembly, and unscrew the cylinder, (see photograph 9). Remove the change plug to gain access to the combination change sleeve.


Turn the outside knob clockwise once to the stop position and release. The latch should not retract. This is done to clear any numbers that may have been entered previously. Enter the

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11. The change sleeve.



12. Turn the spanner wrench clockwise.

existing combination and insert the spanner wrench, (see *photograph 10*) to engage the change sleeve, (see *photograph 11*). Gently turn the spanner wrench clockwise to the stop position, (see *photograph 12*). When a slight click is felt and the change sleeve stops turning, then turn the spanner wrench back counter-clockwise to the stop position. Remove the spanner wrench and turn the outside knob clockwise to the stop position and release (once only).

Enter the new combination, taking care to be sure the click is felt with each number entered. You can only use each number once, but you can use all five numbers and you can depress more than one button simultaneously to get a different combination. In other words, depressing one and then two will give you a different combination than if you push one and two at the same time. Although you can use just one number for a combination, it is not recommended. I would suggest using at least three numbers in a combination, and using two simultaneous numbers greatly adds to the security of the lock.

Now turn the outside knob clockwise to the stop position and note that the latch should retract. If everything has been done correctly, the new combination will function.

That was easy, but what do you do if a combination has been lost, or you are asked to find the existing combination?

Before I get into the establishing of an existing combination, I would like to cover one more issue that can arise when changing the combination, or you may encounter when a customer has tried to



13. Prying the arm off the combination chamber post.



14. Remove the brass shaft bushing.

change the combination themselves and did not follow the directions. I'm referring to a lock in a zero combination. What happens is when turning the outside knob, it always retracts the latch, however; when you enter a combination it prevents the latch from retracting.

To correct the issue, follow the above directions but skip entering the existing combination because it does not exist. Follow the remainder of the instructions and you will clear the zero combination issue.

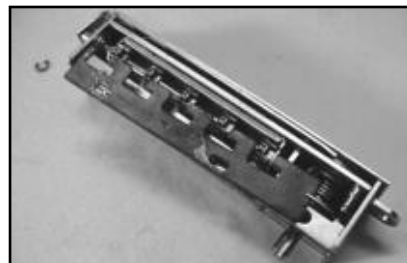
Now, let's turn to establishing an unknown existing combination. Obviously, there is no procedure for determining an unknown combination from the front of the lock. The recommended way is to remove the combination chamber from the lock housing and follow the steps listed below. We will do it the Kaba Simplex way first, and then I will cover my way of doing it.

Remove the back plate as before by taking out the six cover screws. Remove the chamber linkage by disconnecting the E-clip from the arm and prying the arm off the combination chamber post with a flat screwdriver, (see *photograph 13*). Remove the combination chamber by removing the two screws.

Next remove the brass shaft bushing from the combination chamber, (see *photograph 14*). Remove the three-sided combination chamber back cover by tapping it away from the combination chamber. This will break the staked joints at both ends, (see *photograph 15*). With tweezers or small screwdriver, slide the E ring off the unlocking slide stud. The unlocking slide stud is under spring tension and will be easier to lift if pushed



15. Break the staked joints that hold the cover.



16. Swing the unlocking slide sufficiently to clear the gears.

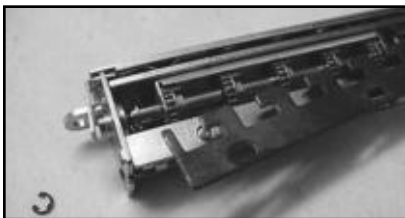
to the left to ease tension. Swing the unlocking slide sufficiently to clear the gears and no further, (see *photograph 16*).

Depress the lockout slide and the code gears will be free to rotate. Turn each code gear so the slots align with the legs of the unlocking slide, (see *photograph 17*). Return the unlocking slide over the unlocking slide stud while making sure the five legs are engaged in the five code gear pockets. It may be necessary to adjust each gear slightly to make the proper alignment between the legs and the gear slots. Replace the E ring on the stud.

Replace the back cover of the combination chamber, making sure the staked joints on both ends fit through both slots. Replace the combination chamber in the door lock. Do Not Attempt To Reset The Combination Until The Complete Unit Has Been Reassembled.

Turn the outside knob clockwise to the stop position and release. Depress the buttons for the new combination and release. Turn the outside knob clockwise to the stop position and release to lock in the new combination. Try the new combination a couple of times before installing the lock on the door.

The other method I mentioned can be done with the combination chamber still in position on the lock. Remove the back cover of the combination chamber as detailed above. Replace the chamber linkage without the cover in place. Look at the relative placement of the gear slots on the gears, (see *photograph 18*). The gear slot that is the furthest away from the top will need to be turned first, since it will turn with each subsequent number as well. Do the same procedure



17. Turn each code gear so the slots align with the legs of the unlocking slide.



18. Look at the relative placement of the gear slots on the gears.

for each slot and press the corresponding button on the front until the slots are aligned with the legs. If you have two slots equal distant from the legs, press both corresponding buttons simultaneously. This method will take a little practice, but once you get the hang of it, it will be easy and effective. I suggest punching the numbers and see what it does with the gears and the relative placement of the gear slots for a better feeling of how my method works.

There are some other issues regarding the Simplex 1000 and they are covered in the before mentioned 1000 service manual from KABA. An exploded view of the lockset is also included along with a list of replacement parts available. Many distributors carry the parts as well as the locks, so give them a call. The manual also includes a list of the changes that have been done on the Simplex 1000 over the years. You will find this useful, especially if you are working on an older version of the lock.

One of the nicest things about the Simplex 1000 is that we as locksmiths can work on them in the field. If you take the time to get acquainted with the lock, I believe you will come to like and respect the unit as much as I do. It is a good profit sale and it will provide good service for years to come.


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THE Lighter SIDE



Bored Stiff

Recently, someone said to me, “Don’t you people get bored doing locksmith work all the time? It doesn’t sound very exciting to me.” I began to think about that, and I had to smile as various tales and personal experiences came to mind.

I remember well the time Don was called to make a key for an eighteen-wheeler out in the country in the middle of the night. It was a leased rig, and the owner was repossessing it for non-payment. It wasn’t until Don arrived on the scene amid a cluster of police cars that he learned all the details of the transaction, and even later that he was told the driver had been armed when he came charging out the front door of the house demanding to know what was going on. Now, that was exciting.

A couple years earlier, he was in the process of re-keying a house for a lady, when her estranged husband arrived on the scene, armed and dangerous, claiming the house was his and Don had no right to re-key anything. That was exciting, too. It was also the origin of our demanding a court order and police attendance when, and if, we ever get involved in re-keying anything in the midst of a divorce or other legally questionable situation again.

In a slightly different category, many of us know about locksmiths who have come across old safes “booby trapped” with explosives or deadly poison. These were set to go off if the safe was forced open by drilling or otherwise. Not what you’d call boring, eh? (Sorry, no pun intended.)

But if you really want excitement, let me tell you about a couple of really interesting locksmithing excursions I heard about a few years back.

A locksmith and safe-expert I know was contacted about opening a very old safe at a business in a remote area of the frozen north in the dead of winter. The safe was too old and large to be reasonably transported to the city, so the locksmith was told he would need to go to the site. Now, that scenario in and of itself might be enough to convince some locksmiths to lock their doors and throw another log on the fire, especially those of us who live in the sunny South. However, the brave locksmith in question—let’s call him Bill—agreed to go, once they’d agreed on his price, and the customer made arrangements to have him flown to the site by private plane.

Wearing the recommended hat, gloves, and heavy coat and carrying the necessary tools for the job, Bill climbed aboard the small plane and settled back for

the long flight. On and on they flew, finally leaving all vestiges of civilization behind and still flying on, over a seemingly unending expanse of snow and ice. Finally, the pilot made a broad circle, and Bill noticed a black spot below that materialized into a low building as they descended. After “buzzing” the building, the pilot flew a short distance beyond, to a makeshift landing strip. They taxied to a stop, slipping and sliding on the ice, and the pilot informed Bill he would be leaving him there, as he had to get back to his home base.

“Somebody ought to be driving over from the store to pick you up in a few minutes,” he said, “But just in case, do you see that utility pole?” The pilot pointed to a pole at the end of the runway. Spikes driven into both sides created a makeshift ladder. “If nobody comes for you within five or ten minutes, you’ll need to climb to the top of it and use the telephone mounted in a box up there to call the store. It’s a direct line. Just don’t wait too long, ‘cause you can freeze to death out here in about twenty minutes.” With that, the pilot took off, leaving Bill standing in the middle of nowhere in the freezing wind.

That was the longest ten minutes of Bill’s life. Nobody showed up. He trudged down the crusty runway, wondering if it was

possible for him to climb the utility pole in this cold wind dressed like the Michelin Tire Man. Fortunately, before he had to prove himself in the pole-climbing department a vehicle appeared as if from nowhere, and the driver transported him to the century-old trappers' and traders' supply store, where the safe was located. He succeeded in getting the safe opened, and was flown home later that day, vowing not to set foot outside again until Spring.

Because of his expertise with safes, Bill had a lot of interesting jobs come his way. He tells about another time, when a man he knew in law enforcement came to him, asking if he'd go with his team of men late one night in connection with a case they were working on. Always glad to use his skills to help fight crime, Bill agreed.

Following their unmarked vehicles to the site in his own service van, he pulled over in a concealed place, as instructed, and was told they'd have to wait there for a few minutes. When they proceeded to a trailer house, his friend apologized for the delay, explaining that they'd had to wait for the suspect to leave the house before they could enter and conduct their business there. Bill was then instructed to pick open the entry door and admit the team. Assuming they had a search warrant, he did as he'd been told. After gaining access to the premises, the team conducted a quick walk-through before calling Bill to come inside.

One wall inside the trailer house consisted of a series of small locked cabinets and drawers. Bill's job, which he had chosen to accept, was to unlock each of the compartments so that the law enforcement team could inspect the contents. Then Bill was to re-lock each one so the owner wouldn't know anyone had tampered with them. This seemed a bit strange to Bill, but he didn't ask any questions at the time.

As he picked open one compartment after another, he noticed the team members carefully examining everything and making detailed notes as to what they'd found before replacing it. He became increasingly aware of his friend communicating with someone on a two-way radio in the background.

"Suspect is leaving site B and heading toward his vehicle," the voice from the other end said.

"How much time does that give us?" Bill's friend said into the microphone.

"Assuming he's heading back to site A, twenty minutes, tops," was the reply.

"Roger twenty minutes. Advise if that changes." Bill's friend turned to him and the team.

"We got twenty minutes to wrap this up. Let's get a move on," he said. Then he looked at Bill. "How many more you got?"



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"Twelve, I think," Bill said.

"How about going ahead and opening up all of them as fast as you can, without waiting on the team to inspect each one. Then you can come in behind them and lock 'em back as they finish."

"Bill did as he was asked and had just begun to pick the first one back to the locked position when another message came through on the radio.

"Clear out of there post haste. Subject is en route and moving fast."

The team snapped into action, gathering up everything that was theirs, checking to be sure everything was being left as they'd found it, and beating a swift retreat to their vehicles. As they drove away, only Bill and his friend remained, with his friend breathing down his neck, urging him to wind things up in a hurry.

Under extreme pressure, Bill completed the task and was relocking the outside door as his friend sped away. He'd just loaded himself and his tools into his van and was driving away,

himself, when he glanced at his rear-view mirror to see a late-model vehicle round the corner a block behind him and careen into the driveway of the trailer house.

At his friend's suggestion, they met at a little out of the way coffee shop in a different area of town a few minutes later, where his friend clued him in to a few minor details he'd neglected to mention earlier. The place they'd entered was where they had been told by an informant a suspected big-time drug dealer lived, but they had no proof until they'd seen for themselves the enormous stash in those locked compartments. They had entered the premises without a search warrant to pre-check the potential evidence, so they'd know whether or not they had a "provable" case against the guy.

Knowing this made Bill very nervous, even after the fact, but his friend's final revelation was the real kicker.

"I'm sorry I had to put you in that position, Bill. We had no idea he'd be returning so soon. Somebody must have tipped him off that we were there. The thing that had me really worried was, I was almost to the point of being forced to pull out and leave you inside, and if you'd gotten caught, there would have been nothing I could have done to help you."

"Wha...what do you mean?" Bill stammered. "I mean I would have been forced to disavow any knowledge of your activities. You'd have been strictly on your own. You probably would have been arrested for illegal entry."

Bill said it took him about three weeks to get the stiffness out of his back from the shivers those little tidbits of information gave him.

And people think locksmithing is boring? Little do they know!

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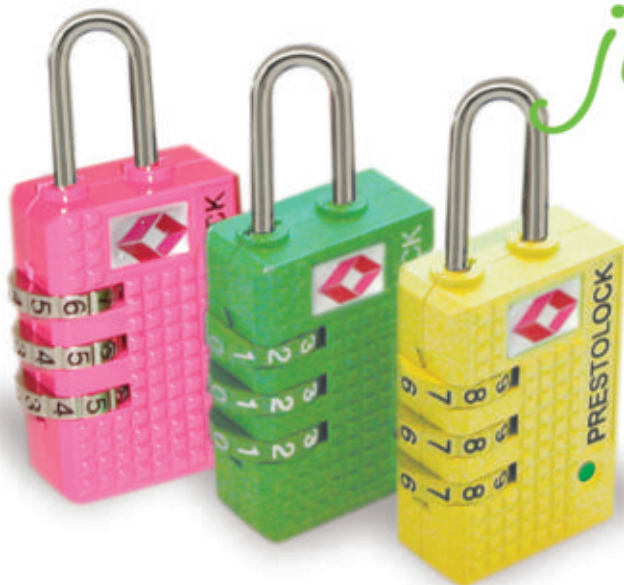
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SENTRY® Gun Safes

by Dale Libby, CMS



When Sentry first entered the Gun Safe market I saw a lot of direct drive 3 wheel combination locks. The bolt entered from the 6:00 o'clock position below the dial. This was the Sentry safe type lock of old, just modified and improved. The way to tell a direct drive safe lock mechanism is to put pressure on the opening handle and turn the safe dial. If the safe has a direct drive mechanism, the bolt bar will bind the wheel pack, and you will feel the drag while turning the dial.

Sentry improved the finish of their safes, the interiors, and even the wheel pack in later models. The wheels were thicker, and even had false gates in them. Yes, it was possible to manipulate then open, but a lot faster to drill and scope, and transfer if necessary. Sentry did use a hardplate on their safes, but a carbide drill bit will penetrate it easily.

A sample gun safe by Sentry is shown in **photograph 1**. It is two feet wide, two feet deep and about four feet high. The lock used on this safe is a foreign made S&G combination lock in the 6700 series, probably known as the 6741.

As with most gun safe sales these days, the gun safe, because of its price and lack of weight (compared to a fire safe of the same size), is being used



**1. Four feet high, two feet wide
Sentry Gun Safe with padded interior.**



**2. Inside view with relock cover
installed and two of the three
bolts shown.**

for many things it was not intended for. The safe in this article was in a large popular biker bar and is open, closed, and locked many times a day, every day. This safe was not intended for heavy-duty usage.

Most of the early problems occurred when threaded items on the safe became loose. **Photograph 2**, shows the inside of the safe door after the padded back of the door was removed. This pad is detached by unscrewing one Phillips screw at the top of the backing pad and then raising the entire cushioned backside up and off the door. What is really needed is LockTite Red or Blue. If you ever change the combination or have to work on this door, save yourself another return trip and seal all threaded nuts, bolts, and screws. Included specifically are the screws holding the lock body to the safe door, the nut holding the opening handle, and the bolt bar nut just beneath the relocker, which can also come loose and give you tribulations. I had to fix all these loose fasteners, some as a call back weeks later.

We can also see the relocking device cover attached to the back of the lock. While seen from the front of the safe, the relocking pin is to the right of the lock and is 2-inches

Continued on page 62

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3. Relock and lock back cover removed. Relock is 2" right as seen from outside the safe door and shoots into a slot in the bolt bar when fired.

right of the dial centerline of the lock. **Photograph 3**, shows this better. The relock cover and the back cover of the lock have been removed. The relocking spring-loaded pin is not cross locked, so it can be pried up to get the safe open if it has been set off. To do so use the opening handle to hold the pin into position while you are prying it up.

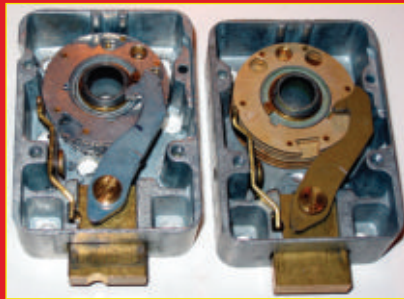
If you look closely you can see the end of the locking lever. We will see it more intimately in a moment. It is an extended tapered piece that extends beyond the lever screw and is arrow point [blunt] shaped. This is similar to the LaGard lever that helps prevent bolt end pressure. This lock is the S&G 6741 Group 2 combination lock. This UL Listed Group 2 lock has ± 1.25 number dialing tolerances to make it easier to dial open. It features a die cast Zamak lever and three brass, aluminum and Zamak combination wheels. This lock is showing up on more and more safes.

Photograph 4 shows two identical covers to this lock. The one on the left states "R6700 Series, Sargent & Greenleaf, Nicholasville, KY, U.S.A." The second cover is from an identical lock and is labeled "The International 2000." This lock is made in Argentina. In **photograph 5**, we see both locks side by side. The lock on the left was drilled multiple times. The only difference is that the color of the cases and wheels are a little different.

The big difference that I can see between the 6741 lock and a 6730



4. Sun International and S&G back covers.



5. Sun and S&G lock bodies. Which is which?

combination lock is the lever and the combination wheels. **Photograph 6**, shows the two levers. The 6741 uses a cast one-piece lever with that tapered end. On the S&G 6730 lock the lever is solid brass and the fence is a separate piece. The fence is inserted into a rectangular cutout on the lever and is silver soldered in place.

I have gone on several safe openings where the lockout cause was either a bent fence or a lost combination. When drilling for the drop-in position on a 6741, use caution when drilling into the lock case. If you drill a little too deep into the lock case after penetrating the hardplate, the fence, when touched, can bend. That makes for a tricky opening. The 6741 fence is not as rigid as the 6730 lever and fence. Once the lever is drilled off, the dial spindle can be turned right after the lever drops, and the lock will open if the relocker has not been set off.

If for some reason the relocker is triggered, then drill for the relock lever. After the hole is drilled, insert a paper clip with a "U" bend in the end. Slide the clip into the hole past the lever, turn the clip and pull towards you. Once you have hooked the lever, you can feel it pull in and out easily. Pull the clip and turn the remaining spindle



6. Cast levers and fence. Bottom fence was broken off by drilling.



7. Wheels showing only one inner hub locking lever.

and the bolt will move into the lock body. I had to do this to the left lock in **photograph 5**.

Some of the issues I have encountered with the 6741 lock have resulted from combination wheel slippage. This may be explained by looking at a wheel itself. On the wheels of a 6730 lock there are two saw toothed levers that hold the inner movable hub of the combination wheel in place. On the 6741 lock there is only one hub locking lever. This is one way to reduce the manufacturing costs. In **photograph 7**, you can see a complete wheel and a disassembled wheel. If you look in the holes in the assembled wheel next to the change hub, you can see only one lever, the one on the right. In the disassembled wheel you can see the one lever exposed.

When a customer gets the dial spinning like a top, and the flys and drive pins are crashing into one another, guess where all that G-force is applied? The wheel locking lever. If someone used an incorrect change key to change the combination, or does it with the back cover removed and the wheel locking cams are not properly positioned when complete, a future problem (such as a lockout) is just waiting to happen.

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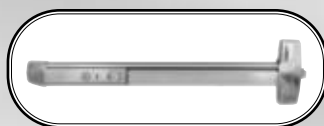
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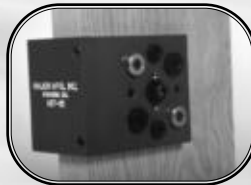
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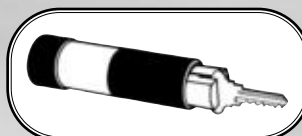
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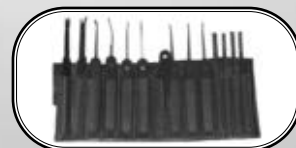
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A Few Words From Jake...

Personal Computer technology is surging ahead so quickly that the newer, faster, better, prettier, cheaper device we buy today is quickly obsolete, by something even newer, faster, better, prettier...and often cheaper than the latest gizmo we just purchased.

PC technology has made enormous strides in the last five years. But in the scheme of things, those strides are, the way I see it, nothing more than a few tottering baby steps of an infant industry that is just beginning to learn how to walk!

Locksmithing is undergoing rapid and revolutionary changes as well. Maybe not quite as quickly as computers; but changes nonetheless. In automotive ignition and lock work, we're into our umpteenth generation of "smart" locks. Electro-mechanical, electro-magnetic, biometric and prox locks are called upon more frequently with each passing year. As in the computer and automotive industries, these new systems are rapidly changing for the better. And they're quickly usurping mechanical locks as the locks of choice among the residential, institutional, commercial and industrial user.

All of this change presents each of us with unique challenges and opportunities. They challenge us to grow and learn new techniques, procedures and concepts. They give us opportunities (if we're willing to stretch just a little) to make more money with higher profit items than most locksmiths are used to dealing with.

Today, we, as locksmiths, are faced with a truly awesome challenge brought on by the evolution of technology. That challenge is to "Grow or get out!" Harsh words? Not really. Because if we do not take the responsibility of meeting new challenges and adopting new ways of doing business, we aren't going to have any business to do.

See y'all next month!



*by Jake
Jakubowski*

Master Lock®

- WINNER -

A Transparent Opening Trick

On a lot of cars the weather-stripping is so tight it is hard to get a wedge between the weather-stripping and the window. I have found it especially hard to do using an air wedge.

What I have found that works beautifully for me is a piece of transparency film that goes in photocopiers. For those who are not familiar with transparency film, it is a thin, slick sheet of plastic that is about the same size and thickness of a sheet of paper. I bought an 8.5" x 11" sheet at Office Depot for 79 cents and cut it in half to get 2 pieces 5.5" x 8.5".

I slide one piece of film between the window and the weather-stripping about two inches down into the door. Then I slide a wedge in between the film and the window. The film allows the wedge to slide easily down into the door without tearing up the weather stripping.

I find that by using the same procedure on the inside of the car (after the car's been opened), it helps in getting an MCOT tool back into the door panel to remove the tool from the door.

You can turn the film any way you need it depending on how wide your wedge is. I have used the same piece of film on about 30 cars and it is still in perfect condition.

*David Green
Missouri*

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- WINNER -

Master Key By-Pass

Today a man came into my shop and said his mother was moving into an assisted living community. She was left with a safe from which her husband used before he died. It had a digital combination as well as key for operating it. There was no combination available. The safe was a Brinks. The key was available but no known combination.

I called Brinks, and they were not much help, as the model number was not available. I then tried the override code, but no luck.

A few years ago I had a safe like this which had a master key available. I did not have a master key for this safe, so I tried to pick the lock to the left like the master

key does. Sure enough, the lock responded. As I turned the tension wrench to the left the door opened.

*Fred Spencer
Pennsylvania*



STRATTEC

- WINNER -

And Let There Be Light!

The other day, I was trying to remove the lower shroud to replace the ignition lock on a Ford steering column in the dark. One of the mechanics wandered over and watched me struggling to see over my bifocals. As I juggled my LED flashlight and screwdriver, he kindly asked if I would like to use his cap light. Cats Eyes is a small plastic molded 3 LED flashlight that clips on the visor of a baseball cap and shines right where you're looking (see figure 1).



Figure 1.

I was just amazed how bright it was and how easy it made a tedious little job.

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Figure 2.

cap for the most practical, hands-free light source available, (see figure 2).

*Chris Camacho
Washington*



- WINNER -

A Hot Idea for Iced-up Locks

A little goodie that I use here in Iowa (we get loads of ice storms), is hand warmer packs you can get at any hardware store for twenty-five, to fifty cents each

at the end of the season. During the season, those same packs sell for a buck or two. Because I am pretty frugal with a buck, I buy a BUNCH of them at season's end.

If you run into an electric stand-alone unit (Cobra, Ilco 4000, IR product, etc.) that has had the buttons frozen by moisture, these little heat packs work wonders. Since you cannot really heat the unit too fast because of the circuitry under the case, you need a low intensity, mild warmth to melt the ice. These little hand warmers are just the thing.

After you get the pack warm by whatever means the manufacturer recommends (some you bend in half, some you squash), place it on the face of the lock. After a few minutes this should prove to be warm/hot enough to thaw the ice that's preventing the buttons from functioning; without damaging any of the circuitry inside the case!

*M.C. (Mike) Merritt
Iowa*

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- WINNER -

Two For One!

I have two tips that I have used for some time which I haven't seen in your magazine.

The first one deals with manipulation. Radio Shack sells a small, flat laser pointer, which I affix to the center of the safe dial with a strong, good quality, double face tape. I fashioned a small piece of wire to hold the

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switch of the pointer in the "On" position.

After determining the left and right contact points, I use the laser to transfer those contacts to a piece of masking tape, or Post-It® notes on the floor beneath the dial. This works extremely well. A less experienced technician can cast these laser dots as far as he/she likes. With the wide gap showing so readily on the tape on the floor—or on the wall—the need for graph paper is eliminated!

My second tip regards my filing technique for impressing. When I prep the blank, I use considerable force filing the chrome off the blade, allowing the file to chatter. I never polish or knife-edge the blade. This rough filing procedure creates small uniform ridges.

My theory behind this is that the ridges offer less metal for the pin/wafer to rest on. And the pin/wafer has a tendency to "crush" these little ridges, which enhances the impression mark.

I also use a lot of pressure progressing each cut (being careful not to take too much off at a time). I find that on average I'll have no more than an inch or two of file travel with each file stroke. This takes a little bit of practice, but once mastered, I have had great success with it. I cannot remember a standard lock that has ever beaten me when I used this technique.

*Mark Wilson
Canada*

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- WINNER -

Quik-Pull Tip

On a Kwikset 400T when time is tight and picking is tough, I resort to the handy Kwik-Pull. Sadly, this procedure often drags the spring steel cylinder retainer arms from their moorings so that the cylinder fits too loosely when snapped back into the knob. To save face (and somebody the cost of a cylinder), try this:

First, pick out the little die-cast chip that lodges under the retainers' barbs; then clamp each retainer between vise jaws while "bumping" the cylinder assembly back onto the retainer with the heel of your hand or a soft hammer. When the cylinder and retainer assume their original positions, simply stake them in place with a small screwdriver and hammer.

For some reason, trying to shove the retainer into the

cylinder grooves doesn't work, but holding the retainer securely and forcing the cylinder toward the retainer does. Go figure!

Another "hard knocks" reminder: The trusty Kwik-Pull and import Kwikset look-alikes don't mix. The puller usually destroys the retainers.

*Fritz Ackerman
E-mail*



- WINNER -

Car Opening Tip

I was called out to open a 1993 Toyota Camry. The PRO-LOK book suggested that I use the rear door handle as my opening target, where I could grab the linkage.

I had problems with this method and sought another solution. After wedging the window on the front passenger door, I looked straight down and was able to see the electric lock solenoid. I gently depressed the plunger with a straight tool and opened the car.

*Tom Richardson
Washington*

Editor's Note: Tom, there is a law called: "The Law of Multiple Redundancy" which states that there are multiple ways to arrive at a given destination, or solution. You just proved it! Thanks for the tip!

Continued on page 76

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FL-1218	18 1/4"	11 1/2"	13"	11"	10 3/4"	10 3/4"	1271	110
FL-1328	25"	14 1/2"	13"	14 1/4"	18 3/4"	10 3/4"	2100	165
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Get Hooked on Key Extractors

Here's a tip for a handy key extractor.

If you have a tackle box, you probably have a good supply of small fish hooks that will easily double as key extractors that work very well in a pinch.

Take a standard sized fishing hook and straighten the bend out of it. The barb on the end works better than most manufactured key extractors at grabbing the key blade.

Since the hooks are usually made of a fairly strong steel; you can apply a fair amount of pressure on them to pull the key out without breaking the hook, and the hooks are thin enough to fit into most keyways.

*Ian Greene
Kentucky*

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- WINNER -

A Carbon Copy Trick

If you need to install dust proof strikes in tile or wood floors; then the proper alignment of the strike and the bolt are critical to a successful install.

Here's how you can get a perfect alignment of the bolt and drill point for the strike or dust-

proof strike. Use a piece of carbon paper to transfer the end of the bolt markings to the floor with great ease. You can use carbon paper on lots of installs. Of course, there are specialty tools already made to do the job, but this idea will save you an investment for a tool that you may not use all that frequently.

*Robert R. Dorantes, CRL
California*

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Tamper Proof Torx Trick

While working on a "Tamper-proof Torx" that was recessed in a deep hole the diameter of the small Torx bit, the socket driver I use simply would not go into the hole and turn the bit/screw. I decided to use my Dremel and cut a straight screwdriver slot in the back end of Torx bit. With a small screwdriver I can now drive that tamper-proof Torx anyplace.

*Wallace Ingram
Oregon*

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Screen Door Opening Trick

The job was supposed to be simple: I was to drive east of town several miles until I got to a stone fence, make a right turn, then left, then right again and stop at the horseshoe driveway. Pick open the front door, get paid and drive back.

The door that was locked was a screen door with no outside lock and the back door was a sliding door that was also locked. While thinking about the situation, I came up with the idea of spreading the door with my inflatable wedge used in car door

openings. I wanted to see if I could spread the door/frame enough to slip the latch past the catch.

Starting with only a portion of the air wedge in the door, I inflated it then used my plastic wedge to hold that position. I then deflated the air wedge and slid it in farther until the door popped open. The motion of the air wedge spreading the jamb and pushing forward was all that was needed to do the job.

After the door was opened I checked the frame to look for problems. The air wedge moved the latch over 1/4", which was not far enough to do any harm, and opened the screen door safely.

*Steve Cormier
Colorado*

LAGARD
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Opening a Locked Safe

Here is a technique I have been using to open safes instead of drilling under, or around the dial and scoping. I find this faster than scoping, particularly when I can drill a hole through the back of the safes. I commonly work on S&G and LaGard locks and have used this method many times without problems. I find it takes me less than 5-minutes once the hole is drilled.

I measure the container and drill a 10mm hole through the back to line up with the change keyhole. I use my scope to dial up the change keyhole in wheel 3 (rear wheel). I then use the following procedure:

- Insert modified change key (see figure A), and insert it into the cam, and unlock wheel (3).

- Apply gentle inwards pressure to the rear of the tool, and turn the dial until you feel the tool move in. (you will feel balance holes as a bump, and let them pass) The tool will push into either the gate or the cam and lock-up the dial. Withdraw

the tool far enough to disengage from wheel (2), and turn the tool, locking the cam on wheel 3.

- Re insert the tool back into wheel (2), and turn it, unlocking wheel (2) and (3). Try to turn the dial. If the dial is locked, the tool is in the gate not the cam, and you must simply continue the search.

- When wheel (2) and (3) are unlocked proceed to feel for wheel 1. Use the same procedure, withdrawing the tool enough to lock wheel (2) and (3), insert into wheel then unlock, once again if the dial turns, you got it right.

- Once all wheels are unlocked, dial up a change combination, I always go for 10, 20, 30. Relock the cams and extract the tool. The safe will now open on dialing the new combination.

The tool is based on a change key and has the following simple modifications, (see figure 3).

- The nose is ground off to a smooth finish.

- The slot is extended so the tool can turn in the rear lock case regardless how far it is inserted.

- 5mm rod is welded to the tool to give it a reach of about 600mm.

David Bradley
Australia

TRL

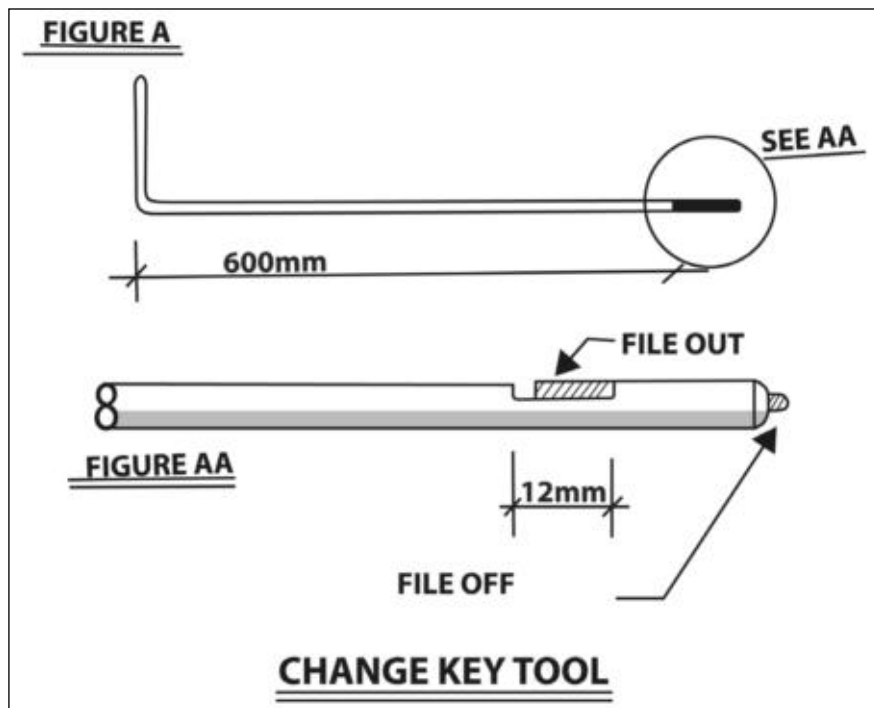


Figure 3.

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CBR600RR



by
John Blankenship



1. The dealer lost the keys to this brand new sport bike and needed a set made. The Honda CBR600RR is a very popular motorcycle and there are a lot of them on the road.



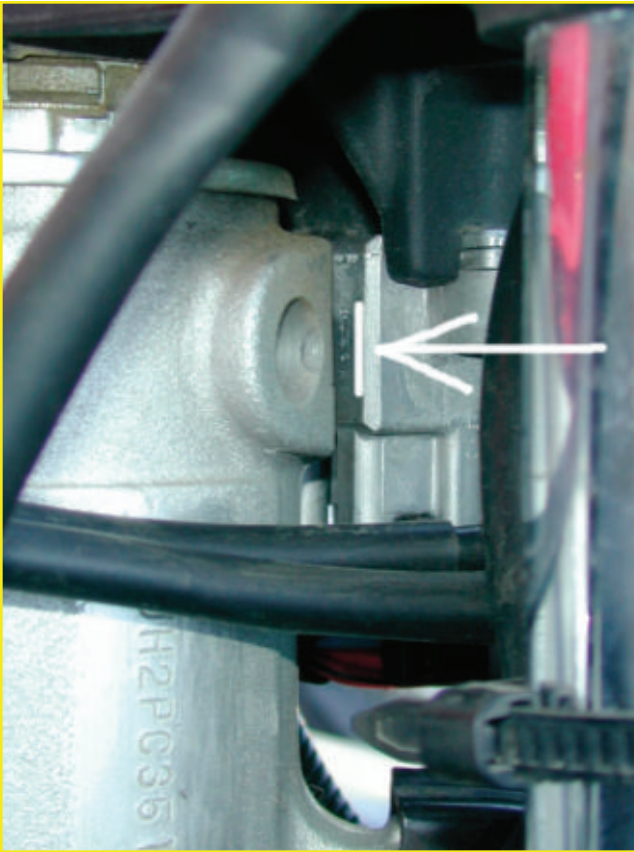
2. This view from the drivers seat shows the ignition/steering lock below the instrument panel and the gas cap on top of the gas tank.



3. The ignition/steering lock is shown in the OFF position. A slight turn clockwise turns the ignition to the ON position. It is necessary to push the plug in before it will turn counterclockwise to the LOCK

(steering locked) position. The handlebars have to be turned to the far left or right to align the locking bolt with the hole in the frame before the steering will lock. You also have to push the plug in before it will turn clockwise to unlock the steering. The ignition lock has all eight wafer tumblers staggered in pairs on both sides of the keyway. When the lock is in the ON position, spaces 1-2 & 5-6 are on the top of the keyway and spaces 3-4 & 7-8 are on the bottom.

Continued on page 87



4. There is usually a code stamped on the ignition lock next to the steering lock bolt, but it is a real challenge to read because it is so small and you cannot get your eyes close to it. Sometimes it is stamped so faintly you cannot read it at all. The steering has to be turned all the way to the left to see it. If the steering is locked to the right, you are out of luck as far as reading the code goes. This is looking from the right side of the bike while you are squatting with your eyes level with the side of the ignition lock. The code is underlined with an arrow pointing to it. There are 6 characters that you read from bottom to top with your head tilted to the left. Only the last 3 characters are the code. The code will be a letter followed by two numbers. The letter will be a J, K, L, M, N, P, Q, R, S, or T followed by 00 to 99, or a U followed by 00 to 39. Methods to read it include using a backlight and Otoscope, pressing Silly Putty against it to read the impression, and painting the area with white fingernail polish and then removing it with fingernail polish remover so as to highlight the characters. The code is so difficult to read that I don't even try; I use the following methods.

6. The gas cap assembly is shown removed from the motorcycle. The characters stamped on the bottom of the cap are not the code. The two locking bolts are retracted in the unlocked position. The way to lock the cap so a key can be removed is to push in on both sides of the gasket at the same time. This simulates pushing the gas cap down into the filler neck, which is the way it is normally locked. If you picked the lock it is best to leave the bolts retracted.

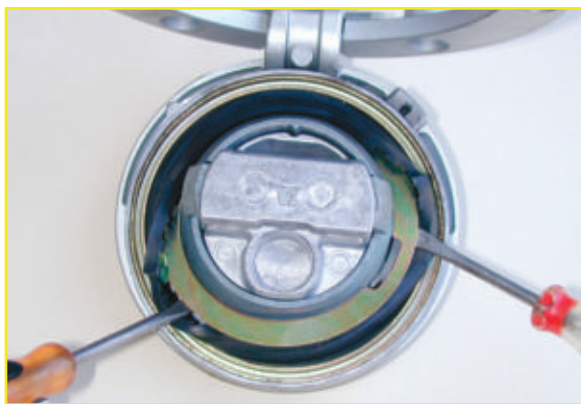


5. The quickest way to originate a key for this bike is to use an Otoscope with a wafer reading attachment to read the height of the wafers. The flip-up dust cover leaves the entrance to the keyway wide open and easy to see into. The gas cap contains five wafer tumblers in spaces 4-8. There are only three depths so it is easy to distinguish between them. Also, the #2 depth wafers are silver in color while the #1 & #3 depth wafers are bronze in color. The silver wafers are easy to distinguish if they are at the entrance to the keyway, but the light from the Otoscope will reflect the bronze color from the bronze wafers onto the silver wafers that are deep in the keyway. There is still a subtle color difference if you look carefully. I easily determined that the cuts for spaces 4-8 are 21313. I cut those depths onto an X265 blank and checked to see that it turned the gas cap lock smoothly; it did. If you generate a key using this method, skip down to photograph 11. If not, you can disassemble the gas cap to obtain the cuts for spaces 4-8.

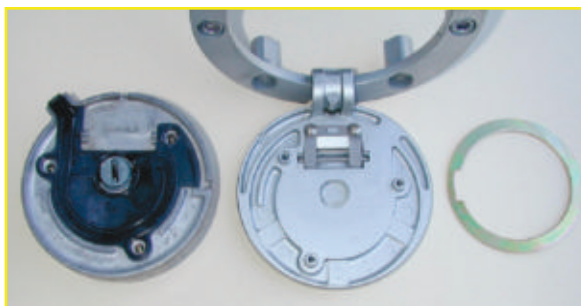
Begin by picking the lock 90-degrees clockwise; it usually picks easily with a rake. Have a small screwdriver ready to finish turning the lock, as it is spring loaded. Then use a 5mm hex key to remove the two bolts on the right (toward rear of motorcycle) and the bolt on the left (toward front of motorcycle). The other 4 bolts do not have to be removed. Now you can take the gas cap assembly to a bench.



7. Remove the gasket-backing ring using two small screwdrivers as shown in the photo. It is similar to removing a bicycle tire from its rim. It is not easy to replace the ring behind the gasket during reassembly but it can be done. There is a cutout on the inside of the backing ring that is visible at the 4 o'clock position. The purpose of this cutout is to allow the ring to slide over the locking bolt if the bolt is extended in the locked position.



8. After the gasket-backing ring has been removed, pry up the gasket and look for the three small Phillips screws that are hidden under it. They are spaced 120-degrees apart. Unfasten the screws and leave them; the gasket will hold them in place. Now the lock assembly can be removed from the cover plate.



9. The gasket-backing ring was removed and placed on the right. Then the lock assembly was removed from the cover plate, turned over, and placed on the left. The three screws are still being held in place by the gasket. The plug can now be pulled out the front of the cylinder.

Continued on page 90

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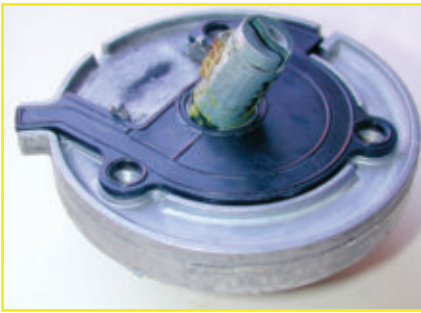
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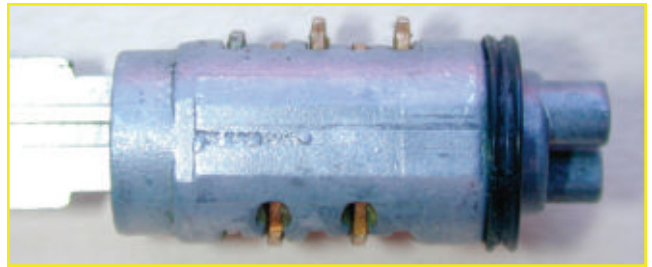
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10. The plug has been pulled from the cylinder while in the unlocked position. It is best to remove the plug while it is in the unlocked position because the



locking bolts are retracted and will stay in place. If you remove the plug while in the locked position they will spring out slightly and the plug is difficult to put back in. The best thing to do in that case is to squeeze the locking bolts in with your fingers until they click into the unlocked position.



11. The gas cap contains 5 wafer tumblers in spaces 4 through 8. An X265 blank inserted into the plug shows the cuts are 21313. Now we need to determine the cuts in spaces 1 through 3 in order to originate a key that will operate all the locks on the motorcycle. The options are:

Use key code software: A search revealed there are only six codes that contain cuts 21313 in the last five spaces. Try 1; 112, 113, 123. Try 2; 121, 131, 132. You can use just one side of the blank for each try if you try it in the seat lock since the wafers are all on the same side of the keyway, unlike the ignition lock. The seat lock has wafers in spaces 2-6 but you do not need the first wafer to be present since the first space is always a #1 depth (no cut). The first three cuts turned out to be 132 so a software search of cuts 13221313 revealed the code as S96.

Progression: The new code series has only 3 depths, the first space is always a #1 depth (no cut), and there are never 3 spaces in a row with the same cuts. Therefore, there are only 8 possible combinations: 1st key: 112, 113, 123, 133. 2nd key: 121, 131, 132. 3rd key: 122. Since space 4 is a #2 depth you can eliminate the possibility that spaces 2 & 3 are depths of 22 thereby reducing the possible combinations to 7. If spaces 4 & 5 had the same depth cuts then you could eliminate that depth as a possibility in space 3. You can use just one side of the blank for each try if you try it in the seat lock since the wafers are all on the same side of the keyway, unlike the ignition lock. The seat lock has wafers in spaces 2-6 but you do not need the first wafer to be present since the first space is always a #1 depth (no cut).

Read: Read the heights of the wafers in the seat lock as explained in photograph 12. The ignition lock is difficult to read due to the thick hardened faceplate at the entrance of the keyway, the dished bezel, and because the wafers are staggered in pairs on both sides of the keyway.

Impression: Impression spaces 2-3 in the seat or ignition lock. The seat lock has wafers all on the same side of the keyway in spaces 2-6. The ignition lock has all eight wafers staggered in pairs on both sides of the keyway. The first space is always a #1 depth (no cut) so do not file it.

Continued on page 92

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Lexus Short 40K to 50K Series

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Remote Electronics Not Included

Replacement Remote Head Keys



12. The seat lock is located on the left side below the drivers' seat. It contains five wafer tumblers in spaces 2-6. Use the Oscope to read the wafers in the seat lock. You already know the depths for spaces 4-6 from reading the gas cap and they will help you read the height of the wafers in spaces 2-3 because you can compare the relative heights of the wafers. The #2 depth wafers are silver in color in this lock also. I determined that the cuts for spaces 2-3 were 32. The cut for the first space is always a #1 depth in this code series so the cuts for this key are 13221313, which is code S96. It was not easy to read the wafers in this lock due to the awkward positioning of the Oscope.

Continued on page 94



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Blank: Ilco X265 (HD109), Curtis HD109,
Silca HON63FP
Spacing: 1=.098, 2=.197, 3=.295, 4=.394,
5=.492, 6=.591, 7=.689, 8=.787
Depths: 1=.276, 2=.244, 3=.213
Card Number: CF73
DSD Number: 173
ITL Number: 211
Curtis: HD-13 cam & HD-13A carriage
Codes: J, K, L, M, N, P, Q, R, S, T00-99, U00-U39
stamped on ignition lock or 11111111-33333333
direct read tip to bow stamped on metal key ring tag.

Tumbler locations:	1	2	3	4	5	6	7	8
Ignition	X	X	X	X	X	X	X	X
Gas Cap					X	X	X	X
Seat			X	X	X	X	X	



13. I code cut this key on a Silca HON63FP because it has a plastic head and is better suited to go with a showroom motorcycle than the all-metal X265. It has cuts of 13221313 and turns smoothly in all three locks.

Note: The codes appear in two different formats. The J to U codes are usually stamped on the ignition lock but 11111111-33333333 direct read tip to bow codes are stamped on a tag that is on the ring with the keys when the bike is bought new.

TMI

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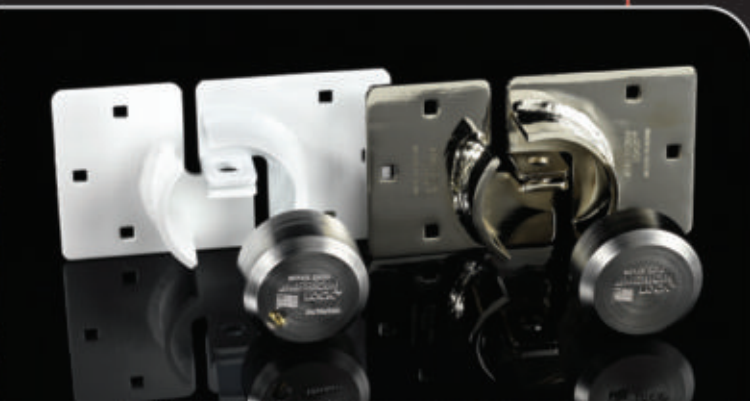


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BUSINESS BRIEFS

SELECT Hinges™ Passes 15 Million Cycle Testing

A full mortise geared continuous hinge from SELECT Hinges™ has surpassed 15 million open/close test cycles, more than most high-traffic entrances see in a lifetime, and continues to function into its third year of testing.

The Physical Endurance Swing Test mounts SELECT's aluminum SL11-HD hinge into a door to stimulate a real world situation such as a school entrance. So far the testing has broken one cycle counter and worn out two door closers, but has created no measurable change to the hinge or door since the test began. SELECT plans to continue the test until the hinge fails.

For more information visit www.archtest.com or www.select-hinges.com.

Arthur Geringer, DAHC Receives the Distinguished Consultant Award

Arthur Geringer, DAHC President and owner of SDC, has been



honored with the Distinguished Consultant award, Door and Hardware Institute's second highest award for technical excellence and standards of performance as an Architectural Hardware Consultant.

IVES Launches New Web Tools

IVES, an Ingersoll-Rand business, has announced that it has expanded its website www.iveshardware.com.



This expansion includes launching a link to IVES commercial product information and technical data.

Medeco's In-House Technical Training Certification Schedule

The Medeco³ certification class covers the design and operation of door hardware cylinders and cam locks. Hands-on exercises are used to disassemble and assemble a Medeco³ mortise cylinder, decode a Medeco³ key, pin a cylinder to a decoded key, and master key a cylinder. Other topics include: matrix masterkey reading, applying limitations of MACS, using specialty tools, and understanding

different levels of key control. An overview of the product line and interchangeable core pinning specifications are also covered.

The class covers the features, design, and operation of KeyMark interchangeable cores, key-in-knob cylinders, padlocks and deadbolts. Participants should have a basic understanding of how a common pin tumbler lock works and have experience in pinning a pin tumbler cylinder.

The official Medeco training schedule is regularly updated on the Medeco website at http://www.medeco.com/about/training_schedule.html

Stanley Works, Inc. Acquires Sargent & Greenleaf and Safemasters

Stanley Security Solutions, Inc. has purchased the Security Group, Inc. in Indianapolis, Indiana.

Security Group Inc. is the parent company of Sargent & Greenleaf, Inc. with headquarters in Nicholasville, Kentucky and Safemasters, Inc. in Silver Springs, Maryland.

Investigative Locksmiths Schedule Meeting

The International Association of Investigative Locksmiths will hold its annual conference June 9-11 at the Ramada Inn Baltimore-Washington International Airport. The International Association of

Investigative Locksmiths exists to further the education of its associates and the general public. Its members are locksmiths, security professionals, police officers, insurance investigators and others with an interest in the benefits of investigative locksmithing.

Information is available on www.ial.org, or by contacting Don Shiles at 410-674-7721 or 301-938-7657, or Lenny Podgorski at 410-516-8269.

HOPPE Introduces New Website

HOPPE North America, Inc.'s, new website (www.us.hoppe.com) features all new product photos, drawings and part numbers in an easy to read format, along with product finishes and maintenance instructions for their entire product line. Also included on their site is the HBL Exterior & Interior Door Hardware System.



Also included on the new website is a dedicated section on HOPPE history, HOPPE's European partners, their Single Design Theme Concept and a Media Support page.

Contact Hoppe, 1-888-485-4885, on the web at www.us.hoppe.com, or by e-mail at info@us.hoppe.com.





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Taking Industry Products for a...

TEST DRIVE

Door Pivots by National Door Controls



THE NEED:

A number of door installations use concealed closers for the door closing operation. These closers are used both in the floor and in the overhead locations of businesses and public buildings like schools and hospitals. They work very well and allow for the double swinging of the doors that sometimes is very handy. As with any mechanical device, these closers wear out, just like surface mounted units. That's not a problem. Repairing or replacing them is.

Both styles of closers require a sizable pocket to install the body of the closer. In the case of the overhead unit, the pocket is usually smaller, but the header must be correctly installed to handle the pressure of the unit in operation. If the closer goes bad, the door can then swing freely, and since it is usually a double swing installation, the door will pass by the adjoining door or the jamb of the door. The springs in these closers are quite strong and therefore the closing speed of the uncontrolled door is fast. Imagine what can happen if someone, especially a child, has their fingers in the way of the door when it closes. Just the thought of the injury scares me.

Another problem with the concealed closers is getting them out to replace them, if you can even find an exact replacement. The overhead version is not as difficult because it does not tend to rust in place as badly, but the floor mounted closer can be a real bear to remove. Consider the fact that the closer has been in place for years and that the floors are often mopped at least once a day. All the water and chemicals that have been run over the top of the closer have taken their

toll and the closer is most likely rusted in place to stay. If you are not familiar with the floor mounted units and how they work, I highly recommend not removing the exposed screws that will allow for the removal of the top cover of the closer. A better answer is needed and is available.

THE ANSWER:

National Door Controls, a division of National Door Co, Inc. of Durham, North Carolina has come up with a simple but effective method of handling these problems. The answer is to leave the closer in place and install a pivot that will enable you to place a surface mounted closer on the door and eliminate the double swing action. The picture at the top of this page is of the top mount unit, but they make pivots for both top and bottom installations.

Pivots for top jamb mounts are available for Jackson, Kawneer Husky, Dorma and Rixson, in both end load and side load models. For floor check center hung doors the models replaced are Rixson, Doromatic, Pittco, Dorma and MAB. Offset floor checks are available in either 3/4" or 1.5" offsets for Rixson, Doromatic, Pittco, Dorma and MAB.

INSTALLATION:

Installing the pivots takes about 30 to 45 minutes, after the first one. Installation instructions are:

1. Remove door.
2. Remove closer arm if top jamb closer is being replaced.
3. Install conversion arm using existing holes if possible.
4. Install bearing and bearing sleeve.
5. Re-hang door.

IN SUMMARY:

DESCRIPTION: Pivots to convert floor and top jamb concealed closers for a surface mounted closer.

COMMENTS: Very well made and easy to install.

TEST DRIVE RESULTS: A tremendous product for working with what can otherwise be a difficult situation.

6. Attach conversion arm bracket if top jamb mount.

7. Check to see if door swings freely, shim if necessary.

8. Install stop on frame.

9. Install surface mounted closer.

OPERATION:

The pivots I have used are the floor-mount variety and they worked as advertised. The bearings and pivots are well made of quality product and will give years of hard service. If you have a floor or top jamb double action closer to replace, I would look into this product.

Installation of the first pivot, although not difficult, took longer than I had expected, but that is the case with most things I do the first time. The product is a simple installation with directions included to lead the process along. You will need to know what you are replacing so you can get the correct pivot.

FINAL COMMENTS:

A quality product for replacing floor and top jamb concealed closers which allows for the installation of surface mounted closers.

Most brands are covered by the available models of pivots, including offset installations.

To get more information or to order pivots contact Jeff or Scott at:

National Door Controls

PO Box 2502

Durham, NC 27715

Phone: 919-477-0504 or 1-800-231-0402

Fax: 919-220-6084

Website: www.replacedoorcloser.com

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